**Certifications**

* **AWS Certified Machine Learning - Specialty**
* **AWS Certified Solutions Architect - Professional**
* **AWS Certified DevOps Engineer – Professional**
* **AWS Certified Solutions Architect - Associate**
* **AWS Certified SysOps Administrator–Associate**
* **Microsoft Certified: Azure Fundamentals**
* **Microsoft Certified: Azure Developer Associate**

**Professional Summary**

* Over 14 years of solid experience in working with cloud development in public cloud providers, including AWS, Azure, and GCP, with expertise in infrastructure automation, DevOps, and CI/CD. Worked with architecting, designing, migrating, planning, implementing, and maintaining various domain-specific applications, including Healthcare, Finance, Telecom, and Retail.
* Over 10 years of ,aster-level experience in working with core Cloud COE and Cloud CIE teams, where POC, architect, design, develop, implement, strategize, and innovate cloud tools and services across the organizations.
* Master-level experience in working with core Container Orchestration using Google Kubernetes, Amazon EKS, ECS, Azure AKS, Azure Container Service, Docker, Docker Compose, Docker Swarm, etc., in integration with Jenkins, Harness, CodePipeline, Bamboo, Azure DevOps, GitHub Actions, Bitbucket, GitOps for CI/CD.
* Hands-on experience in installing and upgrading K8s clusters (including worker nodes), implementing autoscaling for nodes, creating Kubernetes services (ClusterIP, NodePort & LoadBalancer), using horizontal pod autoscaling and troubleshooting issues both at application & cluster level.
* Master level experience with implementing **right tools at right stage in most cost-conscious** way in various stages of Big Data analytics like **Collect**, **Storage**, **Process**, **Analyze**, **Consume**, **Visualization** and **Security**
* Pretty good experience in working with various ML tools and applications like Voice Recognition, Text to Speech conversion, Speech to text conversion and Natural Language Processing with AWS SageMaker and AWS Marketplace.
* Working with various **machine learning models** including Binary Classification Model, Multiclass Classification Model, Regression Model along with in developing business centric AI/ML solutions.
* Architected, designed, automated, developed, and maintained a comprehensive monitoring and alerting system using tools like AppDynamics, CloudWatch, and Grafana to ensure high availability and performance of cloud-based systems, including AWS, Azure, GCP, and OpenShift for end-to-end SDLC for complex business centric products.
* Responded to incidents and performed root cause analysis to identify underlying issues, implemented corrective actions, and prevented future incidents for the production support in the end-client environment using ServiceNow incidents, along with developing and maintaining incident management procedures to ensure consistent and effective response.
* Managed cloud-based infrastructure using AWS, GCP, or Azure, including provisioning and scaling of resources, security management, and cost optimization. Implemented infrastructure as code using tools like Terraform, Ansible, CloudFormation, AWS CDK, CloudFormer, Troposphere, or similar.
* Master-level experience in designing and developing hybrid networks, isolated virtual networks, and extensions to on-premises networks using various cloud tools and services, including but not limited to VPC, DX, IPSEC VPN, VGWs, Internet Gateways, NATs, Customer Gateways, VPN, route Tables, subnets, Elastic IPs, etc.
* Manage and scale cloud-based infrastructure on Azure. Provision resources, ensure security, and optimize costs. Implement infrastructure as code using tools like Terraform, Ansible, ARM templates, and Azure Resource Manager.
* Work with Azure DevOps, Azure Container Service, and Azure Kubernetes Service (AKS) for container orchestration, CI/CD, and infrastructure automation. Implement and manage Kubernetes clusters, autoscaling, and troubleshooting. Utilize tools like Jenkins, GitHub Actions, and Azure DevOps.
* Design and implement security solutions on Azure. Utilize Azure Identity and Access Management (IAM), Azure Virtual Networks, VPN, Azure Security Center, Azure Key Vault, and other security services. Ensure compliance and secure cloud-based systems.
* Work with Azure Machine Learning tools and applications. Develop and implement machine learning algorithms, including supervised learning, unsupervised learning, and reinforcement learning. Build AI/ML solutions and models using Azure services.
* Master-level experience in designing and implementing best security applications in the cloud using various tools and services, including IAM, VPC, VPN, AWS WAFs, AWS Shield, AWS GuardDuty, CloudWatch, CloudTrail, VPC, Encryption, ACM, AWS KMS, SecurityHub, HSM, SSL, TLS, Cognito, Web Identify Federation, Inspector, MS Azure Active Directory, SAML, CloudFront, API Gateway, MS Azure Virtual Networks, etc.
* Expertise in architecting, designing, developing High Availability, Disaster Recovery, Scalability, and Elasticity.
* Designed and implemented a containerization strategy for a microservices-based application using Docker and Kubernetes, reducing deployment time by 50% and improving application scalability and reliability.
* Hands-on experience in installing and upgrading K8s clusters (including worker nodes), implementing autoscaling for nodes, creating Kubernetes services (ClusterIP, NodePort & LoadBalancer), using horizontal pod autoscaling and troubleshooting issues both at application & cluster level.
* Master-level experience in working with Deep Learning Convolutional Neural Networks (CNNs), Long Short Term Memory Networks (LSTMs), Recurrent Neural Networks (RNNs), and Generative Adversarial Networks (GANs).
* Master-level experience in working with various ML tools and applications like Voice Recognition, Text to Speech conversion, Speech to text conversion, and Natural Language
* Demonstrated mastery in utilizing various types of machine learning algorithms such as Supervised Learning, Unsupervised Learning, Semi-supervised Learning, and Reinforcement Learning, and implementing them using industry-standard ML/AI tools and applications.
* Proficient in developing business-centric AI/ML solutions that incorporate Binary Classification Models, Multiclass Classification Models, and Regression Models.
* Effectively communicated with technical and non-technical stakeholders, including executives, developers, and business teams, to provide status updates, incident reports, and recommendations for improvement.
* Collaborated with development teams to ensure seamless integration of monitoring and alerting systems with DynaTrace, Prometheus, Grafana, NewRelic, AppDynamics, and integrated with PagerDuty, OpsGenie, and other similar tools.
* Possess master-level experience in selecting and implementing appropriate tools in a cost-conscious manner for various stages of Big Data analytics, such as collect, storage, process, analyze, consume, visualize, and secure data of different types, including structured, semi-structured, unstructured, media files, log files, and data streams.
* Possess master-level experience in architecting, designing, and developing both batch and interactive Big Data analytics using various Amazon Web Services (AWS) like Amazon Kinesis Streams, Amazon Kinesis Firehose, Amazon Kinesis Analytics, Amazon S3, Amazon API, Amazon EMR (with Spark, Hive, Pig), Amazon ES, Amazon Redshift, Amazon Athena, Amazon EMR, Presto, and Spark.
* Have hands-on implementation experience in developing real-time Big Data analytics using various cloud services like Amazon Kinesis, Amazon S3, Amazon ElastiCache (Redis), Amazon DynamoDB, Amazon RDS, and Amazon ES.
* Possess master-level experience in designing and implementing industry-standard Big Data Architectural Principles like build decoupled systems, use the right tools for the right business needs, leverage managed and serverless services, use log-centric design patterns, be cost-conscious, and develop AI/ML enabled applications.
* Possess master-level experience in architecting, designing, and developing tools for different stages like Ingestion Layer, Storage Layer, Query Layer, Processing Layer, Validation Layer, and User Facing Layer in a cost-conscious manner.
* Have extensive experience in architecting, designing, and implementing complete serverless applications using various serverless services like AWS SAM CLI, Serverless CLI, AWS Lambda (including Lambda Layers and Lambda Custom Runtime), AWS Lambda@Edge, AWS Step Functions, AWS S3, AWS API Gateway, Google APIGEE, and AWS Aurora Serverless using various programming and scripting languages like NodeJS, Python, Java, Go, R, .NET, and Custom Runtime.
* Possess experience in enforcing data characteristics like hot, warm, and cold while implementing data lakes, considering various factors like volume, item size, latency, cost, durability, request rate, etc., during implementing Big Data Analytics.
* Have hands-on experience in providing architecture for collecting data from various data sources, including Web Applications, Mobile Applications, Data Centers, Logging, Clickstream Data, social media, Sensors, Geospatial, and IOT platforms, using Apache Kafka, Amazon Kinesis Streams, and Amazon Kinesis Firehose.
* Possess experience in implementing Data Lakes for storing streamed data from various data sources into Amazon S3, Amazon DynamoDB, Amazon ElastiCache, Amazon DAX, Amazon RDS, EMRFS, Amazon Aurora, Apache Kafka, etc., and ETL, Process, and Analyze the same using various services like Predictive Analytics (AML, Rekognition, Lex, Polly, Sage Maker, etc.), Batch processing (Spark, Hive, Amazon EMR, etc.), and Interactive Streaming Analytics (Amazon ES, Amazon Athena, Amazon Glue, Amazon Redshift, Redshift Spectrum, Apache Presto, Apache Spark, etc.).
* Have experience in analyzing and visualizing Big Data using various cloud services like AWS QuickSight, Tableau, Google Chart, D3, QlikView, Datawrapper, etc.

**Cloud Services**

**Machine Learning Services:** AWS Marketplace, Jupiter Notebook, TensorFlow, MxNet, Chainer, TYTORCH, Keras, Gluon, Amazon EC2, P3, P3DN, Amazon EC2, CS, FPGAS, AWS Greengrass, Amazon SageMaker, Amazon Rekognition Image, Amazon Rekognition Video, Amazon Lex, Amazon Polly, Amazon Transcribe, Amazon Translate, Textract, Amazon Comprehend

**Container and Orchestration Services:** Docker, Terraform, CloudFormation, AWS ECS, GCS, AKS, Ansible, AWS Step Functions, Chef, Puppet.

**Database/BigData/Datawarehouse Tools and Technologies:** RDS, S3, DynamoDB, Amazon Redshift, Neptune, ElastiCache, Amazon DocumentDB, Apache Hadoop, Amazon EMR, Apache Spark, Hue, Tez, Sqoop, Pig, Zookeeper, Spark, Ganglia, Hive, Phoenix, HCatelog, HBase, Presto, Oozie, MS Azure SQL Database, Azure Cosmos DB, etc.

**Programming/Scripting Languages:**Scala, SQL, HiveQL, Spark SQL, R, Studio, Julia, Python, Pyspark, Perl, D3.js, Java, JavaScript, etc

**Migration Transfer Services:** AWS Migration Hub, Application Discovery Service, Database Migration Service, Server Migration Service, Snowball, Snowball Edge, Snow Mobile, etc.

**Networking Content Delivery Services:** VPC, CloudFront, Route 53, API Gateway, APIGEE, Direct Connect, AWS Cloud Map, Global Accelerator, MS Azure Virtual Network, etc.

**Management and Governance Services:** CloudWatch, AWS Auto Scaling, CloudFormation, CloudTrail, Config, OpsWorks, Service Catalog, Trusted Advisor, etc

**Compute Services:** EC2, Lambda, Elastic Beanstalk, ECS, MS Azure Compute Services including Linux Virtual Machines, Windows Virtual Machines, App Service, Functions, Azure Kubernetes Service, Azure Batch, etc.

**Storage Services:** S3, EBS, EFS, Storage Gateway, S3 Glacier, MS Azure Magnetic Disks, File Storage, Blob Storage, etc.

**Media Services:** Elastic Transcoder, Kinesis Video Streams, MS Azure Bandwidth (Data Transfer) etc.

Analytics: Athena, EMR, CloudSearch, Kafka, Elasticsearch Service, Kinesis, QuickSight, Data Pipeline, AWS Glue, etc.

**Security, Identity and Compliance Services:** IAM, Cognito, GuardDuty, Inspector, AWS Organizations, AWS Single Sign-on, Certificate Manager, Key Management Service, HSM, SSL, TLS, KMS, SASL, CloudHSM, Directory Service, WAF & Shield, Security Hub, MS Azure Active Directory, Active Directory B2C, etc.

**DevOps:** Terraform, CloudFormation, Troposphere, AWS CDK, Ansible, Chef, Puppet, CloudFormer, Shell, PowerShell, Python, Ruby, Go, JavaScript, and C

**Data Visualization Tools:** AWS QuickSight, Tableau, D3.js, Datawrapper, Chart.JS, Tableau, Google Chart, D3, QlikView

**Internet of Things:** IoT Core, IoT Analytics, IoT 1Click, IoT Greengrass, IoT Events, IoT SiteWise, IoT Things Graph, Azure IoT Hub

**Monitoring & Alerting:** Nagios, Prometheus, Grafana, DataDog, Dynatrace, New Relic, Opsgenie, PagerDuty

**Assessment & Migration Tools:** Turbonomic, Granulate, Densify, Optum Cloud Optimizer, Azure Migrate, Cloud Genera

**Operating Systems:** Windows, Linux, IOS, macOS, Android, FreeRTOS

**Cloud Providers:** AWS, Azure, GCP, OpenShift.

**Professional Experience**

**Sr .Solutions Architect: *United Airlines, TX* May 2021 – Still**

Architected, designed, migrated, and implemented multiple on-premise applications to the cloud using various AWS services such as SMS, DBMS, CloudFormation, S3, Route53 Glacier, EC2, RDS, SQS, SNS, Lambda, and VPC.

* Architected, designed, implemented, and automated AWS Organizations, AWS Landing zone, AWS Service Catalog, AWS Cloud HUB, AWS Shared VPC networks, Organization Units, production, development, and sandbox accounts in AWS Organization Units.
* Used AppDynamics, CloudWatch, Grafana, Prometheus, DataDog, and NewRelic to collect and analyze system data.
* Designed and implemented custom dashboards and alerts to provide insights into system performance using ServiceNow, AppDynamics, CloudWatch, Grafana, DataDog, and NewRelic.
* Integrated monitoring tools with OpsGenie and PagerDuty to enable quick detection and resolution of issues.
* Built and configured a virtual data center in AWS Cloud to support Enterprise Data Warehouse hosting, including Virtual Private Cloud (VPC), Public and Private Subnets, Security Groups, Route Tables, Elastic Load Balancer.
* Architected, designed, automated, developed, and maintained a comprehensive monitoring and alerting system using tools like AppDynamics, CloudWatch, and Grafana to ensure high availability and performance of cloud-based systems, including AWS, Azure, GCP, and OpenShift.
* Master level experience with various types of **Machine Learning algorithms** like Supervised Learning, Un-supervised Learning, Semi-supervised Learning and Reinforcement Learning and extensively used in industry standard ML/AI tools and applications.
* Master level experience in Machine Learning, Datamining with large datasets of structured and unstructured data, Data Acquisition, Data Validation, Predictive Modeling, and Data Visualization with various industry leading tools and applications.
* Master level experience with architecting, designing, and developing **Big Data Interactive and Batch Analytics** with Amazon Kinesis Streams, Amazon Kinesis Firehose, Amazon Kinesis Analytics, Amazon S3, Amazon API, Amazon EMR (with Spark, Hive, Pig), Amazon ES, Amazon Redshift, Amazon Athena, Amazon EMR, Presto and Spark.
* Very good hands-on implementation experience in developing **Big Data Realtime Analytics** with various cloud services including Amazon Kinesis, Amazon S3, Amazon ElastiCache (Redis), Amazon DynamoDB, Amazon RDS, Amazon ES.
* Master level experience in architecting, designing, and implementing **Predictive Analytics** using Amazon Artificial Intelligence API-Driven Services (Lex, Polly, Rekognition), Managed ML Platforms (Amazon ML, Apache Spark ML on EMR) and AWS Deep Learning AMI (MxNet, TensorFlow, Caffe2, Caffe, Torch, Microsoft Cognitive Toolkit, Keras).
* Responded to incidents and performed root cause analysis to identify underlying issues, implemented corrective actions, and prevented future incidents for the production support in the end-client environment using ServiceNow Incidents along with developing and maintaining incident management procedures to ensure consistent and effective response.
* Managed cloud-based infrastructure using AWS, GCP, or Azure, including provisioning and scaling of resources, security management, and cost optimization. Implemented infrastructure as code using tools like Terraform, Ansible, CloudFormation, AWS CDK, CloudFormer, Troposphere, or similar.
* Collaborated closely with the AI team to integrate AI/ML algorithms into JAVA applications, ensuring seamless integration with existing systems.
* Implemented machine learning models, effectively categorizing and prioritizing automation opportunities to provide value-added solutions.
* Acted as a Subject Matter Expert (SME) to senior stakeholders and team members, providing guidance on automation strategies and best practices.
* ed the integration of AI/ML algorithms into Java applications, enhancing system capabilities and automation.
* Collaborated with the AI team to develop and deploy AI solutions, streamlining business processes through advanced technologies.
* Utilized a deep understanding of applications development and industry standards to analyze complex problems and provide evaluative judgments.
* Worked on multi-dimensional development projects with diverse technology stacks and global deployments.
* Demonstrated hands-on experience with CI/CD pipelines, Chef, Ansible, Linux, Windows, Java, .Net, LDAP, Active Directory, and database management.
* Spearheaded the integration of Service Management Software (Service Now) and ITSM processes for improved automation.
* Leveraged expertise in Chef and Ansible to streamline system management and automation tasks.
* Acted as a key resource for release lifecycle management (RLM) using tools like BMC RLM and Harness.
* Collaborated on multi-dimensional development projects with diverse technology stacks and global deployments.
* Worked closely with development teams to ensure seamless adoption of Service Mesh and provided guidance on best practices and usage patterns.
* Collaborated with security teams to implement mTLS (Mutual Transport Layer Security) and enforce security policies within the Service Mesh to protect service communication and data integrity.
* Wrote unit tests and integration tests for an application using Go language, and debugged issues using GoLand and Go debugger to improve application performance and reliability.
* Collaborated with a product manager and designers to develop a new feature for an application using Go language, and provided regular status updates to the project manager.
* Develop command-line tools using Go language to automate tasks and improve developer productivity.
* Integrated a payment gateway into a web application using Go language, allowing for secure and efficient payment processing.
* Designed and developed a distributed system for a microservices architecture using Go language and gRPC, allowing for efficient communication between services and reducing latency.
* Worked with cloud monitoring and security tools and services including CloudWatch, CloudTrail, Config, GuardDuty, Inspector, WAF, IAM, VPC, and Trusted Advisor.
* Designed, developed, architected, and administered OpenShift Cloud in on-premises and containerization using Kubernetes.
* Architected, designed, migrated, and implemented multiple on-premise applications to the cloud using various AWS services such as SMS, RDS, CloudFormation, S3, Route53 Glacier, EC2, RDS, SQS, SNS, Lambda, and VPC.
* Architected, designed, and implemented CIA, AAA, Non-repudiation as part of cloud security best practices implementation.
* Used Amazon EMR with Hive, Pig, Spark, MapReduce for Batch Analytics, and scheduled daily/weekly/monthly jobs.
* Building and managing big data solutions on Azure, including data ingestion, storage, processing, and analytics at scale. Experience with Azure services such as Azure Data Factory, Azure HDInsight, Azure Databricks, Azure Cosmos DB, Azure Synapse Analytics, and Azure Data Lake Storage.
* Developing and deploying artificial intelligence (AI) and machine learning (ML) solutions on Azure, including training and deploying ML models, natural language processing, computer vision, and data analysis. Proficiency in Azure services like Azure Machine Learning, Azure Cognitive Services, Azure Bot Service, Azure Databricks, and Azure Data Lake.
* Designing and implementing security solutions on Azure, including identity and access management, network security, threat detection, and incident response. Knowledge of Azure services such as Azure Active Directory, Azure Security Center, Azure Sentinel, Azure Key Vault, Azure Firewall, and Azure Information Protection.
* Building and managing data solutions on Azure, including data ingestion, storage, processing, and analytics. Skills in Azure services such as Azure Data Factory, Azure Databricks, Azure SQL Database, Azure Cosmos DB, Azure Synapse Analytics, and Azure Data Lake Storage.
* Managing and maintaining cloud-based infrastructure on Azure, including provisioning and scaling resources, implementing security measures, and optimizing costs. Experience with tools like Azure Resource Manager, Azure PowerShell, Azure CLI, Azure Automation, and Azure Monitor.

**Sr .Solutions Architect: *Guide Well/Florida Blue, Jacksonville, FL* May 2019 – Jan 2021**

* Architected, designed, and implemented multiple applications for migration from on-premises to cloud using AWS services like SMS, DBMS, CloudFormation, S3, Route53, Glacier, EC2, RDS, SQS, SNS, Lambda, and VPC.
* Released over 350 microservices using AWS EKS, Docker, AWS ECR, Amazon ECS, and integrated with Jenkins CI/CT/CD.
* Implemented container orchestration using AWS EKS, GKE, CI/CD/CT with Jenkins, monitoring and alerting the entire pipeline using Prometheus, CloudWatch, Lambda Functions, and migrating applications.
* Architected, designed, implemented, and automated AWS Organizations, AWS Landing Zone, AWS Service Catalog, AWS Cloud HUB, AWS Shared VPC networks, Organization Units, production, development, and sandbox accounts in AWS Organization Units.
* Applied 6+ years of software development experience to create end-to-end automation solutions, including CI/CD pipelines and AI integration.
* Acted as a key resource for release lifecycle management (RLM) using tools like BMC RLM and Harness.
* Collaborated on multi-dimensional development projects with diverse technology stacks and global deployments.
* Designed and developed automation solutions, using hands-on experience with Chef, Ansible, Java, .Net, and more.
* Collaborated with the AI team to develop and deploy AI solutions, streamlining business processes through advanced technologies.
* Visualized and created proof of concept for automation solutions, demonstrating their feasibility and value.
* Orchestrated the integration of Service Management Software (Service Now) and ITSM processes, improving automation capabilities.
* Orchestrated the integration of AI/ML algorithms into JAVA applications, leveraging strong collaboration with the AI team.
* Contributed to the development and deployment of AI solutions, streamlining business processes through cutting-edge technologies.
* Utilized extensive knowledge of applications development, system processes, and industry standards to analyze complex problems and provide informed evaluations.
* Played a key role in multi-dimensional development projects, covering diverse technology stacks and global deployments.
* Demonstrated hands-on experience with CI/CD pipelines, Chef, Ansible, Linux, Windows, Java, .Net, LDAP, Active Directory, and database management.
* Designed, developed, architected, and administered OpenShift Cloud in on-premises and containerization using Kubernetes.
* Built and configured a virtual data center in AWS Cloud to support Enterprise Data Warehouse hosting including Virtual Private Cloud (VPC), Public and Private Subnets, Security Groups, Route Tables, and Elastic Load Balancer.
* Designing and implementing security solutions on Azure, including identity and access management, network security, threat detection, and incident response. Knowledge of Azure services such as Azure Active Directory, Azure Security Center, Azure Sentinel, Azure Key Vault, Azure Firewall, and Azure Information Protection.
* Building and managing data solutions on Azure, including data ingestion, storage, processing, and analytics. Skills in Azure services such as Azure Data Factory, Azure Databricks, Azure SQL Database, Azure Cosmos DB, Azure Synapse Analytics, and Azure Data Lake Storage.
* Solid experience in architecting, designing, and developing **SQL data bases** (like RDS, SQL, Oracle, etc.), **NoSQL data bases** (like DynamoDB, Cassandra, MangoDB, HBase, etc.), **Columnar data bases** (like RedShift, Hive, etc.) and **Graph data bases** (like Neptune).
* Master level experience in implementing **Amazon Kinesis best practices** for high performance data streaming.
* Master level experience with Architect, design, develop, and implement industry standard **Big Data Architectural Principles** including **Build decoupled systems**, **Use the right tools for the right business needs**, **leverage managed and serverless services**, **use log-centric design patterns**, **Be cost-conscious**, and **AI/ML enabled applications development**.
* Master level experience in architecting, designing, and developing **right tools at various stages** such as Ingestion Layer, Storage Layer, Query Layer, Processing Layer, Validation Layer and User Facing Layer in **most cost-conscious manner**.
* Managing and maintaining cloud-based infrastructure on Azure, including provisioning and scaling resources, implementing security measures, and optimizing costs. Experience with tools like Azure Resource Manager, Azure PowerShell, Azure CLI, Azure Automation, and Azure Monitor.
* Designing and deploying scalable and reliable solutions on Azure, including hybrid cloud architectures, networking, security, and identity management. Proficiency in Azure services such as Azure Virtual Networks, Azure ExpressRoute, Azure Firewall, Azure AD, Azure Monitor, Azure Logic Apps, and Azure Service Bus.
* Designing and implementing cloud solutions on Azure, including architecting, planning, and migrating applications from on-premises to Azure. Expertise in Azure services such as Azure Virtual Machines, Azure Storage, Azure Networking, Azure Active Directory, Azure App Service, Azure Functions, and Azure DevOps.
* Conducted performance analysis and optimization of Service Mesh deployments, identifying and resolving bottlenecks, and improving overall system performance.
* Implemented Blue-Green or Canary deployment strategies leveraging Service Mesh features to enable seamless and controlled rollouts of new versions of applications.
* Provided troubleshooting and support for Service Mesh-related issues, diagnosing and resolving network connectivity, routing, or performance problems within the mesh.
* Develop command-line tools using Go language to automate tasks and improve developer productivity.
* Integrated a payment gateway into a web application using Go language, allowing for secure and efficient payment processing.
* Designed and developed a distributed system for a microservices architecture using Go language and gRPC, allowing for efficient communication between services and reducing latency.
* Wrote unit tests and integration tests for an application using Go language, and debugged issues using GoLand and Go debugger to improve application performance and reliability.
* Managed cloud-based infrastructure using AWS, GCP, or Azure, including provisioning and scaling of resources, security management, and cost optimization. Implemented infrastructure as code using tools like Terraform, Ansible, CloudFormation, AWS CDK, CloudFormer, Troposphere, or similar.
* Designed and implemented custom dashboards and alerts using AppDynamics, CloudWatch, Grafana, Prometheus, DataDog, NewRelic, and integrated with OpsGenie and PagerDuty to provide insights into system performance and enable quick detection and resolution of issues.
* Designed and implemented a containerization strategy for a microservices-based application using Docker and Kubernetes, reducing deployment time by 50% and improving application scalability and reliability. Utilized Kubernetes features such as autoscaling, service discovery, and load balancing to optimize application performance.
* Hands-on experience in installing and upgrading K8s clusters (including worker nodes), implementing autoscaling for nodes, creating Kubernetes services (ClusterIP, NodePort & LoadBalancer), using horizontal pod autoscaling, and troubleshooting issues both at the application and cluster level. Expertise in managing Kubernetes clusters on public cloud platforms like AWS EKS, Azure AKS, and Google GKE.
* Designed, developed, architected, and administered OpenShift Cloud in on-premise and containerization using Kubernetes. Utilized OpenShift to streamline application deployment, scaling, and management processes and enhance security and compliance.
* Deployed and managed Docker containers using Kubernetes on AWS EKS and implemented container image management and security practices to ensure reliable and secure containerization. Utilized AWS services like Elastic Container Registry (ECR), Elastic Kubernetes Service (EKS), and Identity and Access Management (IAM) to optimize container management.
* Developed and maintained automation and orchestration workflows using Kubernetes, Docker, AKS, EKS, ACS, ECS, and other tools to streamline system deployments, scaling, and recovery. Implemented continuous delivery pipelines using tools like Jenkins, GitLab, CodeCommit, CodeBuild, CodeDeploy, CodePipeline, Azure DevOps, or similar.
* Designed, developed, and administered OpenShift Cloud on-premise and containerization using Kubernetes.
* Worked with Python for Infra Automation, Pipelines Implementation, and DevOps, along with CI/CD Implementations.
* Architected, designed, and developed security for cross-cloud applications development with HashiCorp Vault.
* Used Amazon EMR with Hive, Pig, Spark, and MapReduce for Batch Analytics, and scheduled daily/weekly/monthly jobs.
* Implemented Materteral Data Lakes for storing streamed data from various data sources into Amazon S3, Amazon DynamoDB, Amazon ElastiCache, Amazon DAX, Amazon RDS, EMRFS, Amazon Aurora, Apache Kafka, etc., and ETL, Process, and Analyze the same using various services, including Predictive Analytics (AML, Rekognition, Lex, Polly, Sage Maker, etc.), Batch processing (Spark, Hive, Amazon EMR, etc.), and Interactive Streaming Analytics (Amazon ES, Amazon Athena, Amazon Glue, Amazon Redshift, Redshift Spectrum, Apache Presto, Apache Spark, etc.).
* Analyzed and visualized Big Data using various cloud services, including but not limited to AWS QuickSight, Tableau, Google Chart, D3, QlikView, Datawrapper, etc.
* Involved in typical steps in building data lakes like setup storage, move data, cleanse, prep, and catalog data, configure, and enforce security and compliance policies, make data available for analytics

**Sr Cloud Engineer Solutions Architect: *UHG, Raleigh, NC*  Jan 2018 – May 2019**

* Collecting data from web apps, mobile apps, and data centers and architecting, designing, and developing data pipelines to move the data into SQL, NoSQL, and cache services like Amazon ElastiCache, Amazon DAX, RDS, DynamoDB, and Aurora.
* Released over 200 microservices using AWS EKS, Docker, AWS ECR, Amazon ECS, and integrated with Jenkins CI/CT/CD.
* Implemented container orchestration using AWS EKR, AWS EKS, GKE, CI/CD/CT with Jenkins, and monitored and alerted the entire pipeline using Prometheus, CloudWatch, Lambda Functions, and migrated applications.
* Architected, designed, migrated, and implemented multiple applications from on-premise to cloud using AWS services like SMS, DBMS, CloudFormation, S3, Route53, Glacier, EC2, RDS, SQS, SNS, Lambda, and VPC.
* Designed, implemented, and automated AWS Organizations, AWS Landing Zone, AWS Service Catalog, AWS Cloud HUB, AWS Shared VPC networks, Organization Units, and production, development, and sandbox accounts in AWS Organization Units.
* Implemented and managed Service Mesh architecture using tools like Istio, Linkerd, or Consul Connect in Kubernetes environments to enhance service-to-service communication, observability, and security.
* Designed and implemented traffic management policies, circuit breaking, and load balancing strategies within the Service Mesh to improve application performance, resilience, and fault tolerance.
* Integrated Service Mesh with monitoring and observability tools such as Prometheus, Grafana, or Jaeger to gain deep insights into service-level metrics, latency, and distributed tracing.
* Using Amazon EMR with Hive, Pig, Spark, MapReduce for **Batch Analytics, and scheduling daily/weekly/monthly jobs.**
* **Materteral Data Lakes** implementation for storing streamed data from various data sources into Amazon S3, Amazon DynamoDB, Amazon ElastiCache, Amazon DAX, Amazon RDS, EMRFS, Amazon Aurora, Apache Kafka, etc. and ETL, Process and Analyze the same using various services including **Predictive Analytics** (AML, Rekognition, Lex, Polly, Sage Maker, etc.), **Batch processing**(Spark, Hive, Amazon EMR, etc.), and **Interactive Streaming Analytics**(Amazon ES, Amazon Athena, Amazon Glue, Amazon Redshift, Redshift Spectrum, Apache Presto, Apache Spark, etc.).
* Using Python, PySpark, Scala, Shell Scripting, Java, JavaScript, etc. extensively in applications development as well as continuous integration pipelines.
* Setting up **Splunk dashboards**, connecting to Hadoop Ecosystem for analytics.
* Involved in **typical steps in building data lakes** like setup storage, move data, cleanse, prep, and catalog data, configure, and enforce security and compliance policies, make data available for analytics.
* Working with various industry leading tools such as Amazon Kinesis Stream, Amazon Kinesis Firehose, Kafka, for collecting data from IoT, geospatial, devices, social media, sensor data and storing it into AWS S3 for effective **Big Data processing, Business Intelligence and Machine Learning**.
* Working with Amazon Redshift, Athena, Amazon EMR with Presto and Spark for **Interactive Analytics**.
* Designing and implementing security solutions on Azure, including identity and access management, network security, threat detection, and incident response. Knowledge of Azure services such as Azure Active Directory, Azure Security Center, Azure Sentinel, Azure Key Vault, Azure Firewall, and Azure Information Protection.
* Building and managing data solutions on Azure, including data ingestion, storage, processing, and analytics. Skills in Azure services such as Azure Data Factory, Azure Databricks, Azure SQL Database, Azure Cosmos DB, Azure Synapse Analytics, and Azure Data Lake Storage.
* Setting up **Splunk dashboards**, connecting to Hadoop Ecosystem for analytics.
* Involved in **typical steps in building data lakes** like setup storage, move data, cleanse, prep, and catalog data, configure, and enforce security and compliance policies, make data available for analytics.
* Played a pivotal role in multi-dimensional development projects, working with diverse technology stacks and facilitating global deployments.
* Designed, developed, and implemented automation solutions, using hands-on experience with Chef, Ansible, Java, .Net, and more.
* Leveraged knowledge of AI/ML concepts and algorithms to enhance automation capabilities.
* Demonstrated hands-on experience with CI/CD pipelines, Chef, Ansible, Linux, Windows, Java, .Net, LDAP, Active Directory, and database management.
* Working with Amazon Redshift, Athena, Amazon EMR with Presto and Spark for **Interactive Analytics**.
* Using AWS Glue Data Catalog to **cleanse, prep, catalog** using Glue crawlers for ETL in various stages of data in AWS S3 like Raw data, Staging data and Processed data.
* Architecting, design, implement **complete serverless applications** using various serverless services including AWS SAM CLI, Serverless CLI, AWS Lambda (including Lambda Layers and Lambda Custom Runtime), AWS Lambda@Edge, AWS Step Functions, AWS S3, AWS API Gateway, Google APIGEE, and AWS Aurora Serverless using various programming and/or scripting languages NodeJS, Python, Java, Go, R, .NET, and Custom Runtime.
* Managing and maintaining cloud-based infrastructure on Azure, including provisioning and scaling resources, implementing security measures, and optimizing costs. Experience with tools like Azure Resource Manager, Azure PowerShell, Azure CLI, Azure Automation, and Azure Monitor.
* Designing and deploying scalable and reliable solutions on Azure, including hybrid cloud architectures, networking, security, and identity management. Proficiency in Azure services such as Azure Virtual Networks, Azure ExpressRoute, Azure Firewall, Azure AD, Azure Monitor, Azure Logic Apps, and Azure Service Bus.
* Designing and implementing cloud solutions on Azure, including architecting, planning, and migrating applications from on-premises to Azure. Expertise in Azure services such as Azure Virtual Machines, Azure Storage, Azure Networking, Azure Active Directory, Azure App Service, Azure Functions, and Azure DevOps.
* Developing and managing Internet of Things (IoT) solutions on Azure, including device connectivity, data ingestion, real-time processing, and analytics. Experience with Azure IoT Hub, Azure Event Hubs, Azure Stream Analytics, Azure Time Series Insights, and Azure IoT Central.
* Managing and optimizing databases on Azure, including Azure SQL Database, Azure Cosmos DB, and Azure Database for MySQL/PostgreSQL. Experience with performance tuning, backup and recovery, high availability, and implementing security measures.
* Worked with HashiCorp Vault for secrets management, data encryption, and identity-based encryption with cross-cloud platforms.
* Developed and maintained automation and orchestration workflows using Kubernetes, Docker, AKS, EKS, ACS, ECS, and other tools to streamline system deployments, scaling, and recovery. Utilized continuous delivery pipelines to automate software delivery and enable faster and more reliable releases.
* ands-on experience in installing and upgrading Kubernetes clusters (including worker nodes), implementing autoscaling for nodes, creating Kubernetes services (ClusterIP, NodePort & LoadBalancer), using horizontal pod autoscaling and troubleshooting issues both at application and cluster level.
* Designed and implemented a scalable and fault-tolerant infrastructure for container orchestration using Kubernetes,
* Worked closely with development teams to design and implement containerized application architectures and ensure they are optimized for deployment on Kubernetes clusters.
* Developed API-driven HashiCorp Vault framework to secure applications.
* Communicated effectively with technical and non-technical stakeholders, including executives, developers, and business teams, to provide status updates, incident reports, and recommendations for improvement. Collaborated with development teams to ensure seamless integration of monitoring and alerting systems with DynaTrace, Prometheus, Grafana, NewRelic, AppDynamics, and integrated with PagerDuty, OpsGenie, etc.
* Designed and implemented security measures and best practices to ensure compliance with industry standards and regulations, including access control, encryption, and secure networking. Conducted security audits and implemented remediation plans as necessary.
* Wrote unit tests and integration tests for an application using Go language, and debugged issues using GoLand and Go debugger to improve application performance and reliability.
* Collaborated with a product manager and designers to develop a new feature for an application using Go language, and provided regular status updates to the project manager.
* Develop command-line tools using Go language to automate tasks and improve developer productivity.
* Integrated a payment gateway into a web application using Go language, allowing for secure and efficient payment processing.
* Designed and developed a distributed system for a microservices architecture using Go language and gRPC, allowing for efficient communication between services and reducing latency.
* Leveraged tools like ELK, Grafana, and Tableau to analyze system data and identify trends and insights. Developed custom reports and dashboards to enable data-driven decision-making.
* Worked with cloud monitoring and security tools and services including CloudWatch, CloudTrail, Config, GuardDuty, Inspector, WAF, IAM, VPC, and Trusted Advisor.
* Deployed and maintained applications with Jenkins in integration with AWS ECS, ECR, EKS, and CodePipeline/GitHub.
* Architected, designed, and developed data movement from on-premises data centers using various cloud tools including AWS Direct Connect, Snowball, Snowmobile, Database Migration Service, Schema Conversion Tools, and Storage Gateway.
* Analyzed and visualized big data using various cloud services including but not limited to AWS QuickSight, Tableau, Google Chart, D3, QlikView, Datawrapper, etc.
* Worked with Amazon Redshift, Athena, Amazon EMR with Presto and Spark for interactive analytics.
* Used AWS Glue Data Catalog to cleanse, prep, catalog using Glue crawlers for ETL in various stages of data in AWS S3 like Raw data, Staging data, and Processed data.
* Architected, designed, and implemented CIA, AAA, and non-repudiation

**Sr DevOps Engineer Solutionsns Architect: *Vanguard International, Malvern, PA* July 2016 – Jan 2018**

* Architected, designed, migrated, and implemented multiple applications from on-premise to cloud using AWS services such as AWS SMS, AWS DBMS, AWS CloudFormation, AWS S3, AWS Route53, AWS Glacier, AWS EC2, AWS RDS, AWS SQS, AWS SNS, AWS Lambda, and AWS VPC.
* Architected, designed, implemented, and automated AWS Organizations, AWS Landing zone, AWS Service Catalog, AWS Cloud HUB, AWS Shared VPC networks, Organization Units, production, development, and sandbox accounts in AWS Organization Units.
* Designed, developed, architected, and administered OpenShift Cloud in on-premise and containerization using Kubernetes. Utilized OpenShift to streamline application deployment, scaling, and management processes and enhance security and compliance.
* Designed and implemented traffic management policies, circuit breaking, and load balancing strategies within the Service Mesh to improve application performance, resilience, and fault tolerance.
* Integrated Service Mesh with monitoring and observability tools such as Prometheus, Grafana, or Jaeger to gain deep insights into service-level metrics, latency, and distributed tracing.
* Worked closely with development teams to ensure seamless adoption of Service Mesh and provided guidance on best practices and usage patterns.
* Collaborated with security teams to implement mTLS (Mutual Transport Layer Security) and enforce security policies within the Service Mesh to protect service communication and data integrity.
* Implemented and maintained traffic routing and ingress/egress control mechanisms using Service Mesh features like gateways and virtual services.
* Conducted performance analysis and optimization of Service Mesh deployments, identifying and resolving bottlenecks, and improving overall system performance.
* Implemented Blue-Green or Canary deployment strategies leveraging Service Mesh features to enable seamless and controlled rollouts of new versions of applications.
* Using AWS Glue Data Catalog to **cleanse, prep, catalog** using Glue crawlers for ETL in various stages of data in AWS S3 like Raw data, Staging data and Processed data.
* Using Amazon EMR with Hive, Pig, Spark, MapReduce for **Batch Analytics, and scheduling daily/weekly/monthly jobs.**
* **Materteral Data Lakes** implementation for storing streamed data from various data sources into Amazon S3, Amazon DynamoDB, Amazon ElastiCache, Amazon DAX, Amazon RDS, EMRFS, Amazon Aurora, Apache Kafka, etc. and ETL, Process and Analyze the same using various services including **Predictive Analytics** (AML, Rekognition, Lex, Polly, Sage Maker, etc.), **Batch processing**(Spark, Hive, Amazon EMR, etc.), and **Interactive Streaming Analytics**(Amazon ES, Amazon Athena, Amazon Glue, Amazon Redshift, Redshift Spectrum, Apache Presto, Apache Spark, etc.).
* Architecting, design, implement **complete serverless applications** using various serverless services including AWS SAM CLI, Serverless CLI, AWS Lambda (including Lambda Layers and Lambda Custom Runtime), AWS Lambda@Edge, AWS Step Functions, AWS S3, AWS API Gateway, Google APIGEE, and AWS Aurora Serverless using various programming and/or scripting languages NodeJS, Python, Java, Go, R, .NET, and Custom Runtime.
* Working with Machine Learning services like Rekognition, Rekognition Video, Polly, Transcribe, Lex for Predictive Analytics using **Machine Learning platforms** Amazon PageMaker, Amazon Mechanical Turk, Amazon Deep Learning APIs.
* Working with S3, HDFS, EMRFS for Data Lakes and using Data lake Formation.
* Working on **setting up and resizing with EMR Architecture** with Master, Core and Task nodes along with setting up HDFS Global Namespace and Metadata.
* Deployed and managed Docker containers using Kubernetes on AWS EKS and implemented container image management and security practices to ensure reliable and secure containerization. Utilized AWS services like Elastic Container Registry (ECR), Elastic Kubernetes Service (EKS), and Identity and Access Management (IAM) to optimize container management.
* Developed and maintained automation and orchestration workflows using Kubernetes, Docker, AKS, EKS, ACS, ECS, and other tools to streamline system deployments, scaling, and recovery. Utilized continuous delivery pipelines to automate software delivery and enable faster and more reliable releases.
* ands-on experience in installing and upgrading Kubernetes clusters (including worker nodes), implementing autoscaling for nodes, creating Kubernetes services (ClusterIP, NodePort & LoadBalancer), using horizontal pod autoscaling and troubleshooting issues both at application and cluster level.
* Designed and implemented a scalable and fault-tolerant infrastructure for container orchestration using Kubernetes,
* Worked closely with development teams to design and implement containerized application architectures and ensure they are optimized for deployment on Kubernetes clusters.
* Designed and implemented a monitoring and alerting strategy for containerized applications running on Kubernetes clusters, using tools like Prometheus, Grafana, or Datadog.
* Built and configured a virtual data center in AWS Cloud to support Enterprise Data Warehouse hosting, including Virtual Private Cloud (VPC), Public and Private Subnets, Security Groups, Route Tables, Elastic Load Balancer.
* Automated shared infrastructure across AWS Organization Units using AWS CloudFormation.
* Worked with cloud monitoring and security tools and services, including CloudWatch, CloudTrail, Config, GuardDuty, Inspector, WAF, IAM, VPC, and Trusted Advisor.
* Building and managing big data solutions on Azure, including data ingestion, storage, processing, and analytics at scale. Experience with Azure services such as Azure Data Factory, Azure HDInsight, Azure Databricks, Azure Cosmos DB, Azure Synapse Analytics, and Azure Data Lake Storage.
* Developing and deploying artificial intelligence (AI) and machine learning (ML) solutions on Azure, including training and deploying ML models, natural language processing, computer vision, and data analysis. Proficiency in Azure services like Azure Machine Learning, Azure Cognitive Services, Azure Bot Service, Azure Databricks, and Azure Data Lake.
* Designing and implementing security solutions on Azure, including identity and access management, network security, threat detection, and incident response. Knowledge of Azure services such as Azure Active Directory, Azure Security Center, Azure Sentinel, Azure Key Vault, Azure Firewall, and Azure Information Protection.
* Building and managing data solutions on Azure, including data ingestion, storage, processing, and analytics. Skills in Azure services such as Azure Data Factory, Azure Databricks, Azure SQL Database, Azure Cosmos DB, Azure Synapse Analytics, and Azure Data Lake Storage.
* Managing and maintaining cloud-based infrastructure on Azure, including provisioning and scaling resources, implementing security measures, and optimizing costs. Experience with tools like Azure Resource Manager, Azure PowerShell, Azure CLI, Azure Automation, and Azure Monitor.
* Designing and deploying scalable and reliable solutions on Azure, including hybrid cloud architectures, networking, security, and identity management. Proficiency in Azure services such as Azure Virtual Networks, Azure ExpressRoute, Azure Firewall, Azure AD, Azure Monitor, Azure Logic Apps, and Azure Service Bus.
* Involved in typical steps in building data lakes like setting up storage, moving data, cleansing, prepping, and cataloging data, configuring, and enforcing security and compliance policies, making data available for analytics.
* Enforced data characteristics such as hot, warm, and cold while implementing data lakes considering various factors like volume, item size, latency, cost, durability, request rate, etc., during implementing Big Data Analytics.

**Sr Cloud Solutions Architect: *Fidelity Investments, Raleigh, NC*  Apr 2014 – Jul 2016**

* Architected, designed, and developed Big Data Interactive and Batch Analytics solutions using a variety of AWS services such as Amazon Kinesis Streams, Amazon Kinesis Firehose, Amazon Kinesis Analytics, Amazon S3, Amazon EMR (with Spark, Hive, Pig), Amazon ES, Amazon Redshift, Amazon Athena, and Presto.
* Demonstrated expertise in developing Big Data Realtime Analytics solutions with various cloud services including Amazon Kinesis, Amazon S3, Amazon ElastiCache (Redis), Amazon DynamoDB, Amazon RDS, and Amazon ES.
* Successfully architected, designed, migrated, and implemented multiple on-premise applications to the cloud using AWS services like SMS, DBMS, CloudFormation, S3, Route53 Glacier, EC2, RDS, SQS, SNS, Lambda, and VPC.
* Led efforts to architect, design, implement and automate AWS Organizations, AWS Landing zone, AWS Service Catalog, AWS Cloud HUB, AWS Shared VPC networks, Organization Units, production, development, and sandbox accounts in AWS Organization Units.
* Architected, designed, automated, developed, and maintained a comprehensive monitoring and alerting system using tools like AppDynamics, CloudWatch, and Grafana to ensure high availability and performance of cloud-based systems, including AWS, Azure, GCP, and OpenShift.
* Implemented Materteral Data Lakes for storing streamed data from various data sources into Amazon S3, Amazon DynamoDB, Amazon ElastiCache, Amazon DAX, Amazon RDS, EMRFS, Amazon Aurora, Apache Kafka, etc., and ETL, Process, and Analyze the same using various services, including Predictive Analytics (AML, Rekognition, Lex, Polly, Sage Maker, etc.), Batch processing (Spark, Hive, Amazon EMR, etc.), and Interactive Streaming Analytics (Amazon ES, Amazon Athena, Amazon Glue, Amazon Redshift, Redshift Spectrum, Apache Presto, Apache Spark, etc.).
* Used Python, PySpark, Scala, Shell Scripting, Java, and JavaScript extensively in applications development and continuous integration pipelines.
* Communicated effectively with technical and non-technical stakeholders, including executives, developers, and business teams, to provide status updates, incident reports, and recommendations for improvement. Collaborated with development teams to ensure seamless integration of monitoring and alerting systems with DynaTrace, Prometheus, Grafana, NewRelic, AppDynamics, and integrated with PagerDuty, OpsGenie, etc.
* Built and configured a virtual data center in AWS Cloud to support Enterprise Data Warehouse hosting, including Virtual Private Cloud (VPC), Public and Private Subnets, Security Groups, Route Tables, and Elastic Load Balancer.
* Streamlined infrastructure across AWS Organization Units by automating shared infrastructure using AWS CloudFormation.
* Worked with cloud monitoring and security tools and services including CloudWatch, CloudTrail, Config, GuardDuty, Inspector, WAF, IAM, VPC, and Trusted Advisor.
* Actively involved in implementing Cloud 2.0 framework to stabilize cloud processes, tools, and services across the organization.
* Resized EMR Architecture clusters with Master, Core, and Task nodes and set up HDFS Global Namespace and Metadata.
* Responded to incidents and performed root cause analysis to identify underlying issues, implement corrective actions, and prevent future incidents in the production support environment using ServiceNow Incidents. Developed and maintained incident management procedures to ensure consistent and effective response.
* Managed cloud-based infrastructure using AWS, GCP, or Azure, including provisioning and scaling of resources, security management, and cost optimization. Implemented infrastructure as code using tools like Terraform, Ansible, CloudFormation, AWS CDK, CloudFormer, Troposphere, or similar.
* Designed and implemented custom dashboards and alerts using AppDynamics, CloudWatch, Grafana, Prometheus, DataDog, NewRelic, and integrated them with OpsGenie, PagerDuty to provide insights into system performance and enable quick detection and resolution of issues.
* Designing and implementing security solutions on Azure, including identity and access management, network security, threat detection, and incident response. Knowledge of Azure services such as Azure Active Directory, Azure Security Center, Azure Sentinel, Azure Key Vault, Azure Firewall, and Azure Information Protection.
* Building and managing data solutions on Azure, including data ingestion, storage, processing, and analytics. Skills in Azure services such as Azure Data Factory, Azure Databricks, Azure SQL Database, Azure Cosmos DB, Azure Synapse Analytics, and Azure Data Lake Storage.
* Managing and maintaining cloud-based infrastructure on Azure, including provisioning and scaling resources, implementing security measures, and optimizing costs. Experience with tools like Azure Resource Manager, Azure PowerShell, Azure CLI, Azure Automation, and Azure Monitor.
* Designing and deploying scalable and reliable solutions on Azure, including hybrid cloud architectures, networking, security, and identity management. Proficiency in Azure services such as Azure Virtual Networks, Azure ExpressRoute, Azure Firewall, Azure AD, Azure Monitor, Azure Logic Apps, and Azure Service Bus.
* Designing and implementing cloud solutions on Azure, including architecting, planning, and migrating applications from on-premises to Azure. Expertise in Azure services such as Azure Virtual Machines, Azure Storage, Azure Networking, Azure Active Directory, Azure App Service, Azure Functions, and Azure DevOps.
* Developing and managing Internet of Things (IoT) solutions on Azure, including device connectivity, data ingestion, real-time processing, and analytics. Experience with Azure IoT Hub, Azure Event Hubs, Azure Stream Analytics, Azure Time Series Insights, and Azure IoT Central.
* Architected, designed and implemented CIA, AAA, Non-repudiation as part of cloud security best practices implementation.
* Deployed and maintained applications with Jenkins.

**Cloud Solutions Architect: *AT&T, Dallas, TX*  Aug 2012 – Apr 2014**

* Developed Spark code in Scala, Python, PySpark, and Spark SQL environments to enable faster testing and data processing, and loaded data into Spark RDDs for in-memory computation and reduced memory usage.
* Leveraged emerging practices for Enterprise Data Management, utilizing Hadoop and Software-based MPP Data Platforms to optimize data storage and retrieval.
* Reviewed code and provided feedback relative to best practices and performance improvements to ensure code quality and reliability.
* Designed, planned, and developed automated programs to extract, transform, and load data between data sources when working with large data sets (TBs+ range).
* Automated the installation, configuration, and maintenance of Hadoop clusters using tools such as Puppet to improve operational efficiency.
* For analyzing and **visualizing** Big Data using various cloud services including but not limited to AWS QuickSight, Tableau, Google Chart, D3, QlikView, Datawrapper, etc.
* Using AWS Glue Data Catalog to **cleanse, prep, catalog** using Glue crawlers for ETL in various stages of data in AWS S3 like Raw data, Staging data and Processed data.
* Using Python, PySpark, Scala, Shell Scripting, Java, JavaScript, etc. extensively in applications development as well as continuous integration pipelines.
* Working on **setting up and resizing with EMR Architecture** with Master, Core and Task nodes along with setting up HDFS Global Namespace and Metadata.
* Working on **resizing the clusters with EMR Architecture** with through **Manual** and **Auto Scaling**.
* Architected, designed, automated, developed, and maintained a comprehensive monitoring and alerting system using tools like AppDynamics, CloudWatch, and Grafana to ensure high availability and performance of cloud-based systems, including AWS, Azure, GCP, and OpenShift.
* Implemented Materteral Data Lakes for storing streamed data from various data sources into Amazon S3, Amazon DynamoDB, Amazon ElastiCache, Amazon DAX, Amazon RDS, EMRFS, Amazon Aurora, Apache Kafka, etc., and ETL, Process, and Analyze the same using various services, including Predictive Analytics (AML, Rekognition, Lex, Polly, Sage Maker, etc.), Batch processing (Spark, Hive, Amazon EMR, etc.), and Interactive Streaming Analytics (Amazon ES, Amazon Athena, Amazon Glue, Amazon Redshift, Redshift Spectrum, Apache Presto, Apache Spark, etc.).
* Used Python, PySpark, Scala, Shell Scripting, Java, and JavaScript extensively in applications development and continuous integration pipelines.
* Communicated effectively with technical and non-technical stakeholders, including executives, developers, and business teams, to provide status updates, incident reports, and recommendations for improvement. Collaborated with development teams to ensure seamless integration of monitoring and alerting systems with DynaTrace, Prometheus, Grafana, NewRelic, AppDynamics, and integrated with PagerDuty, OpsGenie, etc.
* Set up monitoring infrastructure for Hadoop clusters using Nagios and Ganglia to ensure reliable and secure cluster operation.
* Performed ETL Data Cleansing, Integration, and Transformation using Pig to improve data quality and accuracy.
* Worked with Data Pipelines, Data Science, Data Migration, Data Lake Formation, AWS Market Place, AWS Organization, and implemented DevOps for large scale enterprise applications to optimize data workflows and application performance.
* Architected, designed, and developed Big Data Interactive and Batch Analytics with Amazon Kinesis Streams, Amazon Kinesis Firehose, Amazon Kinesis Analytics, Amazon S3, Amazon API, Amazon EMR (with Spark, Hive, Pig), Amazon ES, Amazon Redshift, Amazon Athena, Amazon EMR, Presto, and Spark to deliver timely and accurate insights.
* Architected, designed, developed, implemented, and maintained Architectural Solutions using Big Data and Advanced Analytics utilizing NoSQL databases including DynamoDB, Cassandra, HBase, Spark, and data visualizations to deliver scalable and efficient data solutions.

**DTA - Debit Transaction Application for *Fannie Mae, VA*.** Java Developer **Jul 2010 – Aug 2012**

**Education**

* **Master’s in** **Computers** from Sri Venkateshwara University Tirupati, Andhra Pradesh, India with **Grade 4 out of 5**
* **Bachelor’s in Computers** from Sri Venkateshwara University Tirupati, Andhra Pradesh, India with **Grade 4 out of 5**