

CAREER OBJECTIVE

A continued pursuit of excellence in software product design, development, and leadership through learning, discipline, and thoughtful approach.

KEY SKILLS

- **Cloud Platform:**
AWS: VPC, EC2, Lambda, API Gateway, S3, EBS, RDS, Glue, IAM, Route53, CloudFront, Snowflake, Kinesis, Kafka, Kubernetes, DynamoDB, CloudWatch, Terraform, ELB
Microsoft Azure: Azure Databricks, Azure Data Factory Pipeline, Azure Blob Storage, Azure Container service, Azure app services, Azure Event Hub, Azure IOT Hub, Azure Cosmos DB, Azure Function, Azure Service Bus
- **CRM:**
Salesforce: Apex classes, triggers, Aura Components, Lightning Events, LWC
- **Programing Languages:**
Python, Spark Scala Dataframe, Pandas, SQL, Node.js, ASP.NET, J2EE
- **Technologies:**
Development Tools: IntelliJ, VS Code, SQL Eclipse, Maven
Databases: Oracle, MySQL, Sybase, SQLite, NoSQL (DynamoDB)
Version Control: Git, GitHub, GitLab, Bitbucket, SVN
Containerization: Docker, Kubernetes, AWS ECS/EKS
Others: CI/CD, Jenkins, JIRA, Pytest, JUNIT, Agile, Scrum and Waterfall, Team Management

SUMMARY

With a cumulative experience spanning Nineteen years, including a focused Six-year tenure in Cloud (AWS/Azure) and an extensive eleven-year stint as a Senior Tech Lead/Lead Architect for commercial software products, my proficiency extends across diverse domains such as Power distribution (Electric/Gas), Banking, Health Care, Life Sciences, Insurance, Supply Chain Management, Product Life Cycle Management, and Product Data Management. My expertise lies in seamless collaboration with stakeholders to discern requirements and facilitate the delivery of cutting-edge systems, applications, and interfaces, strategically positioning organizations for progressive growth. My proven success is underscored by adept adaptation and performance in intense and demanding technical environments.

TECHNICAL SUMMARY: CLOUD DATA ENGINEER, DEVELOPER & DEVOPS

Highly accomplished Cloud Data Engineer and Developer with an extensive skill set for architecting, optimizing, and automating data solutions on the Amazon Web Services (AWS) and Microsoft Azure platform, along with expertise in Terraform and Docker. Proficient in various AWS and Azure services and data engineering tools, I am adept at managing the entire data lifecycle from data ingestion to visualization. Additionally, I bring valuable experience in tools and technologies that complement the development and DevOps workflows. My expertise includes:

- **Data Architecture (Data Ingestion, Streaming, Quality, Lineage, Security, Governance, Processing and Modeling)**
- **Data Storage (SQL, NoSQL, Files like Parquet, AVRO, CSV) and Management**
- **Application Development, Monitoring, Alerting and CI/CD.**

EDUCATION

Bachelor in Technology, Jamia Millia Islamia, India

CERTIFICATIONS

- **AWS Certified Solution Architect Associate, Developer Associate**
- **Azure Certified Data Engineer**
- **Salesforce Certified Administrator, Developer**

WORK EXPERIENCE

Artech LLC	Jan 29, 2023 – Current
Visual Technologies LLC	July 2020 – Jan 27, 2023
Cognizant Technology Solutions	June 2013 – June 2020

Data Engineer (Amazon Web Services) – Artech LLC
Client – Duke Energy
Project Description:

Jan 2023 – Current

Duke Energy operates a diverse portfolio of natural gas and electric businesses. As a reliable provider of essential services, the company serves millions of customers across six states. My experience at Duke Energy has honed my skills in navigating the dynamic energy sector and contributing to impactful solutions for a sustainable future.

Key Achievements and Responsibilities:

- Executed the seamless migration of application data and databases to Amazon S3/RDS/Redshift, focusing on preserving data integrity and ensuring accessibility. Utilized AWS Glue jobs to implement and coordinate efficient batch data processing, facilitating the synchronization between on-premises databases and the cloud infrastructure.
- Transformed legacy SQL jobs into AWS Glue PySpark data frame jobs, significantly enhancing performance and maintainability. Implemented advanced data frame operations and optimizations to streamline data processing, ensuring the reliability of the ETL pipeline.
- Utilized Terraform to implement Infrastructure as Code (IaC) for the definition and provisioning of infrastructure resources. Managed infrastructure resources in a code-based, version-controlled manner, ensuring consistency, reproducibility, and efficient resource provisioning.
- Enabled real-time data streaming capabilities from on-premises systems to the cloud leveraging Confluent Kafka.
- Implemented robust data quality checks and validation mechanisms to ensure the integrity of transferred data, maintaining high data quality standards throughout the ETL process.
- Initiated the integration of Spark UI into AWS Glue jobs for enhanced development and testing. Employed Docker to encapsulate and deploy a portable Spark UI server locally. In the cloud, deployed an EC2 instance to host the server, enabling real-time monitoring and optimization of PySpark data frame jobs for AWS Glue executions. The objective was to provide developers with a comprehensive and interactive tool to monitor, analyze, and optimize the performance of PySpark data frame jobs during development and testing phases.
- Implemented comprehensive unit tests using Pytest to validate the functionality of individual components within the ETL jobs. Unit tests cover critical functions, transformations, and data processing logic.
- Incorporated Pytest assertions to verify the correctness of results and expected outcomes. This includes checking the validity of transformed data, ensuring proper handling of edge cases, and validating the integrity of processed data.
- Ensured robust security measures, including data encryption. AWS Secrets Manager was utilized for secure management of Glue, RDS and on-Premises Database secrets.
- Set up AWS CloudWatch for monitoring, alerting, and performance optimization.
- Maintained comprehensive project documentation, including architectural diagrams, migration plans, and operational procedures to facilitate knowledge sharing and future maintenance.

Tools and Technology:

- Spark, Python, Pandas, SQL, Terraform, CI/CD, Docker, AWS EKS, Confluent Kafka, AWS (EC2, S3, Glue, Lambda, Secret Manager, RDS, Cloud Watch, IAM, API Gateway), GIT, JIRA, VS Code

Sr Developer/Lead Data Engineer (Amazon Web Services) – Visual Technology LLC
Client – State Farm, Canva

July 2020 – Jan 2023

Key Achievements and Responsibilities:

- Led end-to-end architecture design, leveraging AWS services for scalable solutions.
- Designed and implemented cloud-native applications on AWS, optimizing performance and cost efficiency.
- Managed all dashboards and management interfaces, as well as writing and maintaining the ETL processes that fed them.
- Created an interactive dashboard application using Python, PySpark and MySQL for data visualizations and business intelligence allowing our sales and management teams to view business-critical quickly and easily.
- Created a scalable, available ad server on AWS using AWS EC2, AWS Elastic Load Balancing and AWS Autoscaling Groups, serving over million requests per day.
- Design and Develop ETL Processes in AWS Glue to migrate Campaign data from external sources like ORC/Parquet/Text Files into AWS Redshift (Data Warehouse) and S3 (Data Lake).
- Used AWS EMR to transform and move large amounts of data into and out of other AWS data stores and databases, such as Amazon Simple Storage Service (Amazon S3) and Amazon DynamoDB
- Architect and developed an ETL pipeline for automatically ingesting partner data on a scheduled basis, using REST API's where possible, or automated screen scraping when necessary.
- Data Extraction, aggregations, and consolidation of Adobe data within AWS Glue using PySpark.
- Designed and developed a real-time data pipeline processing thousands of data points per second using AWS Kinesis, Apache Zookeeper and Storm and Redis to store impression and click data and display in real time using our dashboard.
- Leading a 13-member team from different Technologies, e.g., CRM (Salesforce), DataPower, Java, UI to execute the rollouts for our client's applications.
- Hands on Amazon Web Service VPC, AWS Lambda, AWS API Gateway, AWS Directory Service, AWS EBS, AWS ELB, AWS RDS, AWS IAM, AWS Route53, AWS CloudFront, AWS Kinesis, AWS Kafka, AWS Kubernetes, AWS Dynamo DB, AWS CloudWatch, AWS SQS, AWS SNS, Terraform, Dockers

Tools and Technology:

- Python, Pandas, SQL, Terraform, Snowflakes, CI/CD, Docker, AWS EKS, Apache Kafka, , Kafka Connect, KStreams, KSQL, Apache Flink, AWS (EC2, S3, Glue, Lambda, Secret Manager, RDS, Cloud Watch, IAM, API Gateway), GIT, JIRA, VS Code

Senior Architect - Cognizant Interactive
Cognizant Technology Solutions
Client – Mattel
Developer – Amazon Web Services

June 2017 – June 2020

PROJECT RESPONSIBILITIES:

- Active contributor in Architecture planning and development of various spring boot micro services on AWS cloud infrastructure.
- Automate CI/CD pipelines, IAC using terraform for the product line.
- Responsible for handling 36-member team and daily Scrum stand-ups
- Developed AWS cloud services and used them to design, develop and operate an Elastic AWS service for transcoding across multiple regions.
- Participate with infrastructure team across the infrastructure stack with Virtualization, Window, Linus, Environment Storage, Database and Networking
- Translate complex requirements into detailed Architecture, Design, and Code
- Delivered features with high quality and on time.
- Coordinate with team members to manage and participate in day-to-day development activities, such as Design and Code reviews.

Senior Architect - Cognizant Interactive
Cognizant Technology Solutions
Client – CVS

April 2015 – June 2017

Project Description:

Develop a unified pharmacy experience for Caremark and Retail Customers. One integrated Web application for prescription management, which pulls information from 3 domains (Three different LOB). Plug this integrated web App wherever prescription management is needed.

Key Achievements and Responsibilities:

- As a Delivery lead, oversee aspects of project life cycle (SDLC), from initial kick off, requirement analysis, assets validation, design (translate system requirement into software design documentation), implementation phases (development), change requests management, quality assurance, UAT & legal development supports (for agency and PRC review feedbacks), Final launch and Post launch (hyper-care) development support
- Single page Application development using Angular JS (current version)
- Leading a 28-member team from different Technologies, e.g., VORDEL, Data Power, Java, in executing multiple release for this application
- As a solution Architect, took ownership of particular solution offering, act as visionary and strategist for solution product area e.g. Design, Development, and Delivery etc. Implemented the proxy solutions, SSO for highbred application and End to end automation
- Develop and execute a solution strategy and business plan that support product growth
- Shape, design and plan specific service lines in product area
- Detailed Launch planning starting one month in advance, which includes identifying all the activities for environment readiness, application readiness, Frontend readiness and launch.
- As part of launch readiness, made sure implementation of webserver, SSL Encryption setup, Proxy implementation, Load balancing, Mock launch and Testing through REST client etc.
- Interacting with project stakeholders to review the IQ/OQ and coordinate the code deployment to make sure the dependencies are shorted out and there is no risk to project critical path
- Focusing on customer satisfaction (CSAT) by handling customer feedback & actions plans.
- Providing direction, motivation & training to the pursuit & delivery team for ensuring optimum performance.
- Identifies improvement opportunities, gaps, mitigation plans and suggesting process improvements

ENVIRONMENT: SPA, RWD, Python, Angular.js, HTML, LESS/CSS, JQUERY, JSP, Web services, Jasmine, Protractor, Microservices, Adobe Photoshop CS6, Sublime Text, Visio, Wireframes and Mockups.

Senior Solution Architect - Cognizant Interactive
Cognizant Technology Solutions
Client – JP Morgan (WSS), Dallas, Texas (USA)

Sep 1, 2014 – March 2015

Project Description:

J.P. Morgan Investor Services is a global leader providing solutions and helping institutional investors and broker-dealers optimize efficiency, mitigate risk and enhance revenue through custody and asset servicing, securities and derivatives clearance, and collateral management offerings in more than 100 markets.

Key Achievements and Responsibilities:

- Global ownership of Investor services Migration projects

- Currently supporting the JP Morgan Access Portal User migration to JP Morgan Market portal with generation of reports on SQL Server / Sybase / Business Objects
- As a product manager and delivery lead, oversee aspects of project life cycle (SDLC), from initial kick off, requirement analysis, assets validation, design (translate system requirement into software design documentation), implementation phases (development), change requests management, quality assurance, UAT & legal development supports, development updates as per business owners review, Final launch and Post launch (hyper-care) development support
- As a solution architect, took ownership of particular solution offering, act as visionary and strategist for solution product area
- Responsibilities include Project/People management, planning and execution, analysis, design, implementation, maintenance, Global Stakeholder/Client co-ordination
- Successfully lead the effort in implementing Agile development using Scrum development methodology for IS which included Product Planning, Estimation, Technical Prioritization, Testing
- Lead the effort in reducing the overall Release cycle for IS by one week implementing Continuous Integration, Unit Test coverage, Automated Deployment, Code Inspection and Review for all the project components
- Ensure efficient coverage of production support for local and global users
- Co-ordination with QA team for preparation of Test Cases for Custody, Prime services and Fund services Components

ENVIRONMENT: HTML, XHTML, CSS, Prime faces 3.2, JQUERY, JQUERY UI, JavaScript, EXTJS, Java, Spring, Oracle 11g, Web services, Hibernate, Adobe Photoshop CS6, Eclipse, Visio, Wireframes and Mockups.

Portal User Migration – SQL Server / Sybase / Business Objects / Reporting

Senior Architect - Cognizant Interactive
Cognizant Technology Solutions
Client – BiogenIdec Inc. Weston, MA

June 2013 – August 2014

Project Description:

Biogen Idec discovers, develops and delivers to patients worldwide innovative therapies for the treatment of neurodegenerative diseases, hemophilia and autoimmune disorders.

Key Achievements and Responsibilities:

- As a Delivery lead, oversee aspects of project life cycle (SDLC), from initial kick off, requirement analysis, assets validation, design (translate system requirement into software design documentation), implementation phases (development), change requests management, quality assurance, UAT & legal development supports (for agency and PRC review feedbacks), development updates as per FDA review (PDUFA), Final launch and Post launch (hyper-care) development support
- As a solution architect, took ownership of particular solution offering, act as visionary and strategist for solution product area
- Develop and execute a solution strategy and business plan that support product growth
- Detailed Launch planning starting one month in advance, which includes identifying all the activities for environment readiness, application readiness, Front end readiness and launch.
- As part of launch readiness, made sure implementation of webserver, SSL encryption setup, load balancing, mock launch and testing through google rest client etc.
- Project Management activities includes, demand planning, interviewing, onboarding, training, estimation/contract negotiation, SOW creation, resourcing, project execution, metrics reporting, status tracking & reporting, project closure, RCA and lesson learns
- Focusing on customer satisfaction (CSAT) by handling customer feedback & actions plans.
- Identifies improvement opportunities, gaps, mitigation plans and suggesting process improvements

ENVIRONMENT: HTML, XHTML, CSS, JQUERY, JQUERY UI, JavaScript, EXTJS, Python, Node.js, Java, Spring, Web services, Hibernate, Adobe Photoshop CS6, Eclipse, Visio, Wireframes and Mockups.

Benecard PBF, Orlando (FL) and Mechanicsburg (PA)
Sr. Tech Lead (Manager)

August 20, 2012 – June 2013

Project Description:

Benecard PBX is a privately owned company with offices in New Jersey, Florida, and Pennsylvania and headquartered in Lawrenceville, New Jersey and Benecard's family of companies includes: **Benecard PBF, National Vision Administrators, L.L.C.** and **Contact Fill**.

Key Achievements and Responsibilities:

- Lead the team of 21 developers and responsible for effort estimation, planning and end to end delivery of the product.
- Involved in complete SDLC life cycle – Designing, Coding, Testing, Debugging and Production Support for three projects (**Medication Therapy Management (MTM), Smart-D and RxAlly-NMP (Internal and External Interface)**).
- Worked closely with Business Analysts in understanding the technical requirements of each project and Developed process flow, data flow and use case interaction diagrams in Microsoft Visio.

- Usage of version control repository SVN (Subversion by apache), Mantis to manage the issues/project workflow, Wiki for documentation, Jenkins for nightly build.
- Designed the application by implementing JSF Framework with Prime faces based on MVC Architecture with EJB, Simple Java Beans as a Model, JSP and JSF UI Components as View and Faces Servlet as a Controller.
- Extensively used JavaScript, jQuery and jQuery UI.
- Developed PL/SQL procedures, Java and JavaScript, jQuery code.
- Generating complex reports in PDF for CL/MAP/PML, as per CMS guidelines, using itext and flying saucer.
- Involved in design, development & testing of business components using EJB Session beans.

ENVIRONMENT: HTML, XHTML, CSS, Prime faces 3.2, JQUERY, JQUERY UI, JavaScript, Java, DB2, mybatis, EJB 3.0, ILOG, Adobe Photoshop CS6, Eclipse, Visio, Wireframes and Mockups.

Experian Interactive Media (EIM), Los Angeles, CA
UI Lead / Architect

July 2011 – August 15, 2012

Project Description:

Experian Interactive Media manages online lead-generation brands. The company's brands include **LowerMyBills.com**, which connects consumers with service providers that offer various rates on home loans, auto insurance, and other recurring monthly bills; and **ClassesUSA.com** that connects prospective students with colleges and universities.

Key Achievements and Responsibilities:

- Involved in complete SDLC life cycle – Designing, Coding, Testing, Debugging and Production Support for over 4+ projects.
- Worked closely with Business Analysts in understanding the technical requirements of each project and prepared the use cases for different functionalities and designs.
- Work in close collaboration with internal customers and teams to develop strategies that address product content and overall user experience design for Catalyst's clients.
- Helped to produce specifications for new UI features and develop the features to meet those specifications.
- Built a robust and secure CONTENT MANAGEMENT SYSTEM for few projects as per clients' needs and requirements where HTML, CSS, AJAX and JQUERY were extensively used.
- Designed various grid panels and various UI components using JQUERY framework.

ENVIRONMENT: HTML, XHTML, CSS, JQUERY, JQUERY UI, EXT JS, Dojo, JavaScript, Java, SQL Server 2005, Adobe Photoshop CS4, Adobe Dreamweaver CS4, Wireframes and Mockups.

JP Morgan Chase, SFO, CA
Sr. Web Applications Developer

May 2010 – June 2011

Project Description:

Chase is the largest bank in US by assets and market capitalization. Major provider of financial services, the chase brand is used for credit card services in US and Canada, the bank's retail banking activities in the US and commercial banking. Worked on multiple projects (both internal as well as consumer facing).

Key Achievements and Responsibilities:

- Worked with teams where requirements are continuously being implemented, tested and improved (agile).
- Developed the presentation layer using HTML5 and CSS according to internal standards and guidelines.
- Developed web solution from templates with dynamic user controls, prototypes, table less layouts, and HTML5 document standards using ASP.NET and integrate with JQUERY, JavaScript, & CSS.
- Handled all aspects of the web application including maintaining, testing, debugging, deploying & maintenance.
- Worked on Cross-Browser compatibility and fixed the bugs, for several browsers.
- Converting wireframes in templates including creation of brand identity, web site header, menu, information containers, grid styles, navigation, forms, buttons, icons, images, User components and application widgets creation with suitable color schemes.

ENVIRONMENT: HTML, CSS, JavaScript, JQUERY, AJAX, Firebug, Asp.net with C# (MS Visual Studio 2010), MS Office and online tools.

Alere Healthcare, Atlanta, GA
Web Developer

Oct 2007 - April 2010

Project Description:

Alere - www.alere.com (previously Inverness Medical Innovations, Inc.) - a global leader of rapid point-of-care diagnostics with 11,000 employees worldwide. Worked on DOTCOM related projects - building the website from scratch, improvising few modules of the application, etc.

Key Achievements and Responsibilities:

- Involved in development and finalization of initial design of the application and worked with content Managers, copywriters and designers to resolve the issues.
- Designed business applications using web technologies like HTML, DHTML, XHTML, share point and CSS based on the W3C standards.
- Managed text and graphic contents with the help of C# and ASP.Net.
- Developed data formatted web applications and deploy the script using client-side scripting using JavaScript.
- Created web forms for uploading multiple files to share point document library.
- Created Mockups and Wireframes for the development of variations of a layout to maintain design consistency throughout the site.
- Delivered the best design aesthetics under tight deadlines, while effectively managing trade-offs between businesses needs and portal user benefit.
- Implementing the process and strategy of Health Portal UI, Dynamic Web Interface development with accessibility standards (508), Apply usability and performance on cross browsers such as (IE6+, FF3+, Chrome, Opera, and Safari Mac/pc), touch screen devices and different media (interfaces).

ENVIRONMENT: HTML, CSS, JavaScript, JQUERY, AJAX, Firebug, Asp.net with C# (MS Visual Studio 2010), SQL SERVER 2000, MS Office and online tools

Acuvate, India
UI Developer

May 2004 - Sep 2007

Project Description:

Acuvate is a software consulting, solutions and services company based out of Hyderabad with presence in Bangalore and US. Its offerings are an optimal blend of software services and off the shelf products.

Key Achievements and Responsibilities:

- Designed the mock ups for the Web Pages and developed cross browser compatible Web Pages using Dream weaver.
- Improved the quality of traffic and promoted the site through web content development, search engine optimization (SEO), and search engine submission.
- Creating and maintaining UI prototypes and specifications.
- Collaborating with Product Managers and Software Engineers to provide guidelines on solid UI design.
- Keeping up to date with the latest industry trends in UI design and usability.
- Translating market and product requirements into UI designs in the form of conceptual models, wire frames and prototypes.
- Using advanced level of HTML, XML, JavaScript, CSS and pure CSS layout.

ENVIRONMENT: HTML, CSS, JavaScript, Notepad++, MYSQL