**Prasanna Lalitha Thota**

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**PROFESSIONAL SUMMARY**

* I have 12 years of experience in IT industry with major focus on **Azure and AWS DevOps**, Continuous Integration and Continuous Delivery (**CI/CD pipeline**), .NET development, Build and Release management, Linux/Windows administration and support.
* Experienced in developing **.NET applications** using **ASP.NET MVC**, .**NET Core**, **C*#,* Entity Framework**, **LINQ**, **JavaScript**, **jQuery**, **SQL Server** & Object-Oriented Programming and implementation of Client / Server systems, PowerShell, **TFS Build**, **Docker**, **Kubernetes**.
* Experienced in working on **Angular JS**, **Web Api**, **SQL Server 2017/2014/2012/2008**.
* Proficient in Administrating Azure IaaS/PaaS/Saas services like compute Azure Virtual Machines, Web and Worker roles, VNET, Network services, SQL Databases, Storages, Azure Active Directory, Monitoring, Autoscaling, PowerShell Automation, Azure Search, DNS, VPN and **C# .NET.**
* Experience in all phases of Software Development Life Cycle (SDLC) from Requirements gathering, Analysis, and Design, Development, Documentation, Testing, Implementation and Maintenance of various Web and windows applications.
* Hands on experience in writing **Azure Resource Manager (ARM)** to deploy, update and delete multiple resources in Azure and migrating the on-premises resources to Azure with Azure Site recovery (ASR) and Azure backups.
* Experience in Azure IaaS - **Virtual machines**, **VM Scale Sets, Load Balancer, Traffic Manager, Virtual Networks, SQL, Resource Groups and Cloud Services.**
* Extensive involvement in Azure Backup, Azure Policies**, Azure Key Vault,** Salt Stack and Tagging.
* Experience in Azure Platform Development, Deployment Concepts., hosted Cloud Services, platform services and close interface with Windows Azure Multi-Factor Authentications.
* Experience in complete software development life cycle (SDLC) with software development models like

**Agile, Scrum Model, JIRA, Waterfall models**

* Experience in **Logic Apps, Data Factory, Kafka, Azure Storage, Data Factory.**
* Experience in writing Infrastructure as a code in Terraform to deploy the Azure resources and services.
* Troubleshoot and resolve issues for customers largely focused on **Azure VMs, Azure App Services, Azure SQL Databases, Application Gateways, VPN Gateways, Azure AD, and Azure migrations.**
* In-depth experience in Amazon AWS Cloud Services, (EC2, S3, EBS, ELB, Cloud Watch, Elastic IP, RDS, SNS, SQS, Glacier, IAM, VPC, CloudFormation, Route53), and managing security on AWS.
* Experienced in automating, configuring and deploying instances on **AWS**, Azure environments and data Centers, also familiar with **EC2**, **Cloud Watch** and managing security groups on **AWS**.
* Experience in working of **AWS Cloud service** like Compute, Network Storage and Identity & Access Management, API Gateway, Azure CLI and ETL applications.
* Worked on Source Code Control Systems like Team Foundation Server **TFS**, **SVN** and **GIT**.
* Experience in **Waterfall, Agile Methodology** for full lifecycle of the project such as planning analysis, prototyping, design implementation, testing, release and following for next iteration as per needs.
* Experience in designing Test **Cases, Test Scenarios, Test Scripts &Test reports** by using client requirements.
* Experienced in **SOAP/ REST API Testing** using tools such Advanced Rest Client, Postman & SoapUI.

**TECHNICAL SKILLS:**

Cloud Environments Azure, Amazon Web Services (AWS) SCM Tools Git, Azure Repo, TFS, GitHub, SVN.

CI/CD Tools Jenkins, Ansible, Azure DevOps, VSTS, Azure Pipelines Build tools Maven, MS build

Automation Tool Ansible, Terraform, CloudFormation Deployment Tools Octopus, Spinnaker,

Monitoring Tools Azure App Insights, Azure Metrics, Azure monitoring service Containerization Tools Docker, Kubernetes, AKS.

Ticketing Tool JIRA, ServiceNow, Azure Boards Programming Languages C# .NET, Vb. NET, Python, Java

Web Technologies ASP.NET MVC, .NET Core, Web Services, WCF, Web Api, HTML, CSS Scripting Language JavaScript, jQuery, AngularJS, ReactJS, YAML, PowerShell

Databases SQL Server 2017/2014/2012/ 2008, My SQL, Oracle, Cosmos DB

SDLC Azile, waterfall

Testing Tools Postman, JUnit, Mobile Testing

Application Server IIS, Apache Tomcat

**PROFESSIONAL EXPERIENCE:**

**Foot Locker Retail, Inc., Camp hill, PA Jan 2022-Till Date DevOps Engineer/ Sr .NET Developer**

* Designing and implementing Azure Solutions across a range of cloud models like SaaS, PaaS, IaaS, and integrated on-premises, on-demand workloads with the Azure public cloud.
* Worked on Microservices for Continuous Delivery environment using Azure, Docker. Involved in setting up a Microservice architecture for application development and implemented high availability with Azure Classic and Azure Resource Manager deployment models.
* Extensively worked on Building and Installing servers, creating multiple resources like in Azure through Azure Resource Manager Templates (ARM) or Azure Portal and provisioned them using Terraform templates. I also worked on Virtual networks, Azure Custom security, endpoint security and firewall.
* Worked in setting up Azure Virtual Appliances (VMs) to meet security requirements as software-based appliance functions (firewall).
* Constructed and Installed servers through Azure Resource Manager (ARM) Templates or Azure Portal. Migrating On- premises virtual machines to Azure Resource Manager (ARM) Subscription with Azure Site Recovery.
* Developed and designed Azure DevOps pipeline to manage the resources across multiple subscription in Azure.
* Worked with Version Control, Build & Release Management and Deployments of the Solutions to the DEV, QA & PROD Environments leveraging Azure DevOps/VSTS principles/process (CI/CD) and toolsets of Visual Studio, AKS (Azure Kubernetes Service), Application Insights, Log Analytics.
* Provisioning servers/instances using infrastructure as code such as Terraform and CloudFormation. Code is stored in a private repository and constantly updated.
* Worked on Terraform templates also for provisioning virtual networks, subnets, VM Scale sets, Load balancers, and used terraform graph to visualize execution plan using the graph command.
* Integrated Docker container orchestration framework using Kubernetes by creating pods, Config Maps, and deployments. Development of automation of Kubernetes clusters with Ansible, writing playbooks.
* Deployed Kubernetes Clusters on cloud/on-premises environments with master architecture and wrote many YAML files to create many services like pods, deployments, auto scaling, load balancers, labels, health checks etc.
* Used security groups to develop a logical firewall to ensure high security for control applications.
* Developed Scalable Robust ASP.NET MVC Web Apps, Web Forms, REST Web APIs and SOAP Web Services in .NET v4.5/4.7. Developed the Frontend using HTML5, CSS3, jQuery, Bootstrap, AngularJS, and the Backend using C#, ASP.NET MVC and JavaScript
* Implemented the Frontend using HTML5, CSS, jQuery, React JS, and Bootstrap. Developed the Apps using Test Driven Development (TDD) and implemented Integration and Unit Testing
* Designed and developed ORACLE packages, views, functions and triggers to perform business rules using Oracle 11g/PL SQL and SQL Server
* Experience in JIRA for ticketing and as well as defect tracking system and configure various workflows, customizations and plug-ins for JIRA bug/issue tracker, integrated Jenkins with JIRA, GitHub, Maven.
* Experience in Network File Systems (NFS) and Storage Area Network (SAN), Cyber Security.
* Experience in SRE and DevOps engineers, providing guidance, coaching, and professional development.
* For New applications, work with development team to get the requirements of application build and deployment process.
* Once the process KT is complete from development team, write build and deployment scripts according to SCM team standards and processes to QA, IST, and UAT Environment.
* **Environment**: .NET Framework 4.5, MVC 6, C#, Java Script, jQuery, Angular, ReactJS, Entity Framework, Azure DevOps, AZURE Repo, Docker, Kubernetes, TFS, Terraform, MS Build, SQL Server, Unix/Linux, Python, Azure SQL, Power shell

**Caterpillar Inc., Peoria, IL Jan 2020-Jan 22**

**Cloud Architect / Sr .NET Developer**

* Setup and Build Azure cloud infrastructure for various PaaS and IaaS resources like Azure App Service Environments, Azure Kubernetes Service, Azure API Management, Azure App Gateway, Azure SQL Managed Instances, Azure Key Vault, Azure Redis Cache, Virtual Machines, Service Bus, Event Hub, Application Insights, Azure Log Analytics, Private and Public DNS Zones, Virtual Networks, NSG’s and Route Tables in ARM templates.
* Designed and configured Azure Virtual Networks, subnets, Azure network settings, DHCP address blocks, DNS settings, security policies and routing.
* Managing Identity Access management of Azure Subscriptions, Azure AD, Azure AD Application Proxy, Azure AD Connect, Azure AD Pass Through Authentication.
* Database/Application health and performance monitoring experience using services such as Azure Monitor and Application Insights.
* Created Services to implement Authentication and Authorization using AAD (B2B and B2C), ADFS with Access token, Claims Identity with Microsoft Azure Graph API, oAauth2.0, SAML2.0, Microsoft OpenID Connect API.
* Responsible for standing up and configure the Azure API Management solution to host and secure the Confidential APIs with configuring policies and definitions, OAuth 2.0 client credential grant, leveraging Azure Active Directory as an Authorization Server for OAuth 2.0, enabling audit trail and logging via Azure Event Hubs, and integrating with Application Insights.
* Created Azure services using ARM templates (JSON) and ensured no changes in the present infrastructure while doing incremental deployment and Managed the Azure Data bricks/Spark, Azure Data Factory, Azure Cosmos DB and Azure Stream Analytics, Azure Event Hubs, Azure Service Bus.
* Configured Azure Key vault and key management access policies. Created automation scripts to generate secrets and store the secrets in Key Vault in Encrypted way.
* Implemented PowerShell Scripts to generate secrets and Store secrets in Key Vault in with encryption.
* Implemented Azure DevOps Multistage YAML pipelines to drive all micro services builds out to the Docker registry and then deployed to Kubernetes and Azure App Service Environments, Created Pods and managed using AKS.
* Implemented network protocols, routing, and switching mechanisms, Change management processes and incident handling, Cyber Security.
* Responsible for implementing containerized based applications on Azure Kubernetes by using Azure Kubernetes service (AKS), Kubernetes Cluster, which are responsible for cluster management, Virtual Network to deploy agent nodes, Ingress API Gateway, MySQL Databases and Cosmo DB for stateless storage of external data, and setup reverse proxy Nginx in the cluster.
* Evaluated Kubernetes for Docker container orchestration. Managed Kubernetes charts using Helm and created reproducible builds of the Kubernetes applications, templatize Kubernetes manifests, provide a set of configuration parameters to customize the deployment and Managed releases of Helm packages.
* Experience in working on Azure Service Bus, Azure Event Grid and Azure Data Factory
* Involved in Designing the Application Architecture using Microsoft design patterns, C#, ASP.NET MVC & .NET framework, CSS, JavaScript and WCF
* Experience in SQL Server development including Triggers, Packages, Procedures, functions, views, SQL Tuning, SSRS, SSIS, SSAS.
* Designed and Implemented architecture to log Azure DevOps End to End pipeline logging information to SQL database through the Storage Queue and Event Grid in encrypted way.
* Implemented automated testing web applications using Selenium IDE, creating automation scripts, executing test cases and debugging in Visual Studio (C#).
* Strong ability to troubleshoot any issues generated while building, deploying and in production support.
* **Environment**: .NET Framework 4.5, C#, MVC 5, Java Script, Angular, ReactJS, Entity Framework, Azure DevOps, AZURE Repo, Docker, Kubernetes, TFS, MS Build, Nodejs, Azure SQL, PowerShell, Terraform, Azure PostgreSQL, Ansible, Python, Unix/Linux, SQL Server, Azure Container Registry.

**Cognizant Technology Solutions India Private Ltd.**

**The Football Association, United Kingdom Jan 2019-Dec 2019 AWS DevOps Engineer**

* Designed and implemented Continuous Integration and Continuous Deployment frameworks from code to deploy using Jenkins.
* Designed and implemented automated provisioning and configuration frameworks in support of infrastructure-as-code.
* Provided POC's to provision the AWS infrastructure using Ansible playbooks which includes checking the health status, monitoring and gathering facts about the ec2-instances, elastic load balancers, auto scaling groups and other AWS resources.
* Setting up the Ansible control machine (RHEL7) and configured the remote host inventories via SSH.
* Worked closely with other development and operations team to understand complex product requirements and translated them into automated solutions.
* Involved in AWS architectural design to provision the AWS resources.
* Involved in writing the packer scripts to generate the machine images for AWS.
* Designed and developed ORACLE packages, views, functions and triggers to perform business rules using Oracle 11g/PL SQL
* Closely worked with Kafka Admin team to set up Kafka cluster setup on the QA and Production environments.
* Implemented to reprocess the failure messages in Kafka using offset id.
* Managed the AWS cost cutting by writing the Ansible playbook for auto start/stop of AWS resources at a particular time of the day by triggering it from Jenkins
* Set-up databases in GCP using RDS, storage using S3 bucket and configuring instance backups to S3 bucket. prototype CI/CD system with GitLab on GKE utilizing Kubernetes and Docker for the runtime environment for the CI/CD systems to build and test and deploy.
* Providing a test-driven development for Ansible by using Server spec. Written spec tests for checking if servers are configured correctly.
* Creation of Extract, Transform, and Load (ETL) software programs.
* Amazon IAM Service enabled to grant permissions and resources to users. Managed roles and permissions of users with the help of AWS IAM.
* Involved in Automation testing and Performance testing.
* **Environment**: AWS, Open Stack, Terraform, Ansible, Chef, Docker, Kubernetes, Jenkins, GIT, Maven, Unix/Linux, New Relic, Hadoop, Python scripting, Java, ETL Tool, GCP, Spring Boot, NoSQL, JVM, Apache Tomcat, MySQL, Oracle, PowerShell Scripting.

**Cognizant Technology Solutions India Private Ltd.**

**Thomson Reuters Corporation, San Diego, CA April17-Jan19 DevOps Engineer/ Sr .NET Developer**

* Deploying Azure IaaS Resources using ARM Templates.
* Configuring Azure VMs using Azure PowerShell, DevOps Deployment agents.
* Development of logic apps and integrate with them into dynamics CE and SQL database.
* Generating Azure Cost Analysis Reports for cost optimization.
* Creating Data pipelines using Azure Data Factory Copy and Data flow Activities.
* Planning migration of SQL Databases from on premise to Azure.
* Prepared capacity and architecture plan to create the Azure Cloud environment to host migrated IaaS VMs and PaaS role instances for refactored applications and databases.
* Experience in load balance Windows VM in Azure to create high available application with Azure PowerShell and manage Azure Virtual Network for Windows VM with Azure PowerShell.
* Experience in Backup and restore files for Windows VM in Azure cloud.
* Worked on developing Web Forms using ASP. NET, C#.
* Performed Negative, Positive testing manually and Involved in Automation testing and Performance testing.
* Experience in GCP Dataproc, GCS, Cloud functions, BigQuery.
* Implement and optimize DevSecOps automation processes, ensuring seamless integration of security into the development lifecycle.
* Experience in SQL Server development including Triggers, Packages, Procedures, functions, views, SQL Tuning, SSRS, SSIS, SSAS.
* Apply policies to limit the location for all resources/SKU for VM etc. Lock the resources from being accidentally deleting or modifying. Tag the resources to logically organize them.
* Worked on Wave planning & move groups for Server consolidation & Migration Projects.
* **Environment**: Azure DevOps Service, Azure Repos, Azure Key Vault, Azure Storage account, Azure Data Factory, DevSecOps, Windows VMs, Azure SQL DB, MongoDB, NoSQL,GCP, Logic Apps, Power shell.

**Tech Mahindra Limited**

**EMRI Green Health Services ((Formerly Known as GVK EMRI)), INDIA May15-March17 AWS DevOps Engineer**

* Involved in migrating applications to the AWS cloud.
* Executed QA services for enhancing efficiency of technologies and related updates for cloud storage applications.
* Created Shell Scripts and SQL scripts for automation of different application and database deployments respectively to different environments like DEV, SIT, UAT etc.
* Developed automation scripts in Python (core) using Puppet to deploy and manage Java applications across Linux servers.
* Created Perl & UNIX scripts for build and release activities in QA, Staging and Production environments.
* Experienced in Installing, Upgrading, Patching, Configuring and Administrating Red Hat Linux.
* Installed and configured monitoring tools Nagios for monitoring the network bandwidth and the hard drives status.
* Deployed Java applications in WebLogic application servers.
* Automated the build process using Jenkins and scheduled build jobs daily for the sanity check of the Java code checked in by the developers.
* Created jobs in Jenkins to build applications using Ant and Maven. In addition, developed several scripts to deploy artifacts in different environment.
* Worked efficiently with applications development team to implement, test and rollout new patch releases and experience in OpenShift as well.
* Experience in data integration, ETL processes
* Implemented Spring boot microservices to process the messages into the Kafka cluster setup.
* Used Spring Kafka API calls to process the messages smoothly on Kafka Cluster setup.
* Worked closely with developers to pinpoint and provide early warnings of common build failures.
* Involved in manual testing of the application, creating test plans, test cases and documentation.
* Executed user administration and maintenance tasks including creating users and groups, reports and queries.
* Kept track of all the releases and request of the developers through Infrastructure management tool.
* **Environment**: AWS cloud Jenkins, GIT, ANT, MAVEN, JIRA, Python, Spring Boot, JVM, Web Sphere, Nagios, ETL Tool,MySQL, Puppet, Unix/Linux, Windows, Shell, Jira, Apache Tomcat, XML, Java/J2EE, Oracle.

**Tech Mahindra Limited**

**TATA Communication Limited, INDIA March15-April15**

**.NET Developer**

* Worked on the UI design of the ASP. Net pages.
* Worked on developing Web Forms using ASP. NET, C#.
* Created XML data and Schema Files.
* Worked on developing the code behind classes in C#.NET.
* Used ASP.NET validation controls (Required field validator, regular expression validator, compare validator, range validator), User Controls, Custom Controls, DataGrid Web Control.
* Worked on output and data caching of frequently requested web pages and data objects.
* Worked in developing the component that talks to a database using ADO. Net objects.
* Worked in implementing Stored Procedures call in the data access layer.
* Used ADO.NET object (SQL Connection, SQL Data Adapter, SQL Command, SQL Data Reader and Dataset) to talk to SQL Server.
* Performed manual functional testing for system change requests, defects, and requirements.
* Worked in the data-modelling phase of Database design (creating ER Diagrams)
* Worked in Functional Test, User Acceptance Test and stress test.
* Used ADO.NET and data objects such as Data Adapter, Data Reader, Dataset, data table, stream reader and XML Text reader/Writer for access to SQL data sources
* **Environment**: C#, ASP.NET, ADO.NET, HTML, CSS, WCF, JAVASCRIPT, Entity Framework, WCF, SQL Server 2005

**Tech Mahindra Limited**

**The Bank of Nova Scotia, operating as Scotiabank, Canada June14 –March15 DevOps Engineer /. NET Developer**

* Automate the deployment, scaling and management of supporting CI/CD infrastructure using Groovy and shell scripting languages.
* Define and implementation of best practices for CI/CD across the full Software Development Life Cycle.
* Design and migrating Ecommerce project On-premises services to Cloud environments.
* Designed the landing zone and created the HLD and LLD documents for the cloud platform
* Expertise in execution, planning and migrating the on-premises workloads to public Cloud.
* Good exposure to various migration tools such as Azure migrates, ASR, Cloud Endure
* Expertise in Microsoft Azure offerings such as Azure VM, Azure Resource Manager, Load Balancer, Azure Networks, Azure Site Recovery, Azure AD & ARM templates
* Knowledge on SQL Server databases to SQL Azure Database using SQL Azure Migration Wizard and then Deployed application to Azure Cloud
* Working on Microsoft team’s integration and power apps.
* Good experience in creating VMs, Blob Storage, File Storage in Azure cloud, managing Azure AD, AD Connect and Multifactor Authentication and managing Azure AD using Graph API
* Designing and Developing API’s using Azure API Apps.
* Developed micro services for the complex mapping and integrated services.
* Knowledge on data extraction for huge number of records using Azure Data Factory (ADF).
* Working on service-oriented architecture and experience of the Release Management process with CI/CD pipelines using Azure DevOps.
* Implemented Azure Storage - Storage accounts, blob storage, and Azure SQL Server. Explored on the Azure storage accounts like Blob storage.
* Experience in support/implementing the containerized Elasticsearch as an open-source search engine with a REST API and used Fluent as data ingestion tool and log transfer solution with Elastic Search cluster.
* Involved in setting up JIRA as defect tracking system and configured various workflows, customizations and plugins for the JIRA bug/issue tracker
* Extensively used JIRA as a ticketing tool for creating sprints, bug tracking, issue tracking, project management functions, and releases.
* **Environment**: **Environment: .**NET Framework, C#, MVC, Azure DevOps Service, Git, Azure Key Vault, DevOps Library, Azure WebApp, Azure Storage account, Azure Blob, Azure ADLS, Azure Data Factory, Windows, MS SQL Server, Azure SQL DB, Terraform.

**Tech Mahindra Limited**

**TTK healthcare Services, INDIA Jan 12- May 14**

**.NET Developer / DevOps Engineer**

* Created web pages using ASP.NET, C#, Java Script
* Worked on writing ADO.NET classes for Customer, Assignment and Requirement modules.
* Experience in working with SOAP based web services.
* Participated in initial database model for SQL Server 2005/2008.
* Involved in writing test cases.
* Created Stored Procedures to communicate with SQL database.
* Participated in the build process.
* Experience in developing CI/CD pipelines
* Participated in quality assurance testing the entire application.
* **Environment**: VISUAL STUDIO 2010, C#, ASP.NET, ADO.NET, HTML, CSS, JAVASCRIPT, WEB

SERVICES, SQL SERVER 2005, Oracle, Azure DevOps.

**EDUCATION:**

* Bachelor of Technology in Electronics and Communication Engineering from Jawaharlal Nehru Technical University (JNTU), Hyderabad 2011