

Chalama Reddy Venna
Charlotte, NC | chalama.wiu@gmail.com | +1 (224)-538-1114

PROFESSIONAL EXPERIENCE:

Client: Cassendro Software Solutions pvt ltd , Hyderabad , India

June 2020 - Aug 2022

Role: DevOps/Cloud Engineer

Responsibilities:

- Successfully managed version control repositories using GitLab, ensuring streamlined collaboration and adherence to best practices, resulting in improved code quality and team productivity.
- Configured Jenkins pipelines to automate build and deployment processes for applications on Unix platforms using groovy scripts, reducing deployment time.
- Implemented and maintained a robust CI/CD pipeline, integrating GitLab and Jenkins for automated code integration, testing, and deployment, leading to increased deployment frequency and reduced deployment failures.
- Managed AWS S3 services, optimizing bucket configurations and permissions, and implementing lifecycle policies, resulting in improved data management efficiency and cost savings.
- Implemented DNS health checks using Amazon Route 53, enhancing traffic routing efficiency and ensuring high availability of services, resulting in reduced downtime.
- Developed Python Lambda functions for data transformations and analytics on EMR clusters, improving data processing speed.
- Orchestrated containerized applications on AWS using ECS and Kubernetes, improving scalability and resource utilization efficiency.
- Automated infrastructure with Terraform, including RDS instances, VPCs, and more, reducing manual intervention and deployment errors.
- Established microservices architecture with Docker and Kubernetes clusters, leading to improved application scalability and maintenance efficiency, resulting in reduced infrastructure costs.
- Implemented CI/CD pipelines using Jenkins for end-to-end automation, reducing manual deployment efforts and improving deployment reliability.
- Coordinated PostgreSQL database administration, including automated backups from AWS RDS, ensuring data integrity and disaster recovery readiness.
- Managed DNS servers, DHCP servers, and DNS clients, ensuring seamless network operations and availability of services.
- Developed J2EE components, including Java Beans, JSP, Servlets, JDBC, and deployed in Tomcat, contributing to the successful delivery of web applications with improved performance and user experience.

Environment: AWS, Kubernetes, Docker, Terraform, Cloud Formation, Git, Bitbucket, Maven, Jenkins, SonarQube, Ansible, Nexus, Splunk, ELK, Prometheus, Grafana, Tomcat, JIRA, Shell, Python, YAML, Groovy, NoSQL, Java, Linux

TECHNICAL SKILLS:

Operating Systems	Ubuntu, Red Hat, Centos, Windows, Mac OS
Cloud Platforms	AWS, Azure
Version control Tools	Subversion (SVN), GIT, GIT Hub, Bit bucket, CVS
Containerization tools	Docker, Kubernetes
Configuration Management Tools	Ansible, Chef, Puppet
Automation & Build Tools	Jenkins, Hudson, Bamboo, Ant, Maven, Gradle, MS Build
Monitoring Tools & Repositories	Cloud Watch, ELK, Datadog, Grafana, Nexus, Artifactory, Jfrog
Application servers & Bug Tracking	Apache httpd, Tomcat, WebSphere, Nginx, JIRA.
Virtualization Tools	VMware, Virtual Box, Vagrant
Scripting Languages & SDLC	Shell, Python, Ruby, Bash, YAML, JSON, Agile Scrum, Waterfall
Networking Protocols	TCP/IP, UDP, DNS, NFS, LDAP, SSH, SSL, SFTP, SMTP

ACADEMIC PROJECTS:

1. Multi-Cloud Infrastructure Orchestration with Terraform and Kubernetes:

Objective: Create a multi-cloud infrastructure setup that can deploy and manage applications on both AWS and Azure using Terraform for infrastructure provisioning and Kubernetes for container orchestration.

Technologies: Terraform, AWS, Azure, Kubernetes, Docker

2. Serverless Data Processing and Analytics Platform on AWS:

Objective: Build a serverless data processing and analytics platform on AWS using Lambda functions, S3, EMR, and DynamoDB for processing and storing data, and AWS Glue for data cataloging and ETL.

Technologies: AWS Lambda, S3, EMR, DynamoDB, Glue, CloudFormation.

EDUCATION:

Master's in computer and information sciences | WESTERN ILLINOIS UNIVERSITY

Aug 2022- May 2024

Bachelor of Technology in Computer Science | VIGNAN UNIVERSITY

Jul 2018 – Jul 2022

Course Work: Data structures and Algorithms, Software Engineering, Database, Computer Networks, Artificial Intelligence, Computer Architecture, Operating Systems, Topics in Computer Science, Advance Operating Systems, Computer Graphics, Advance Artificial Intelligence, Advance Computer Networks.

CERTIFICATIONS:

AWS Certified Solution Architect Associate.