MAHANANDI UDAY KIRAN REDDY

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OBJECTIVE

Motivated and technically skilled entry-level AWS and DevOps engineer with a strong foundation in cloud computing, automation, and infrastructure management. Proficient in using tools like AWS, Terraform, Docker, Jenkins, and Git for scalable and efficient operations. Seeking an opportunity to apply skills in continuous integration and deployment (CI/CD), cloud architecture, and infrastructure as code (IaC) to enhance operational efficiency and reliability. Eager to grow expertise in DevOps and cloud practices within a collaborative team environment, contributing to innovative and resilient solutions.

EDUCATION

Bachelor of Computer Science and Business Systems, Rajeev Gandhi Memorial College   2021 - 2024

Diploma in Mechanical Engineering, Sree Vidyanikethan Engineering College   2018 - 2021

SKILLS

Technical Skills	AWS, Terraform, Docker, Kubernetes, Jenkins, Ansible, Argo CD, Grafana, Prometheus, SonarQube, Bash, Git, GitHub, Apache Tomcat, Apache2/httpd, Nginx, Linux, Ubuntu.
Soft Skills	Problem Solving, Adaptability, Communication, Team Collaboration, Time Management, Self-Motivation, Eagerness to Learn.

PROJECTS

AWS Three-Tier Application Deployment - Developed and deployed a scalable three-tier architecture on AWS using EC2, RDS, and Elastic Load Balancing (ELB) for high availability and performance. Automated infrastructure provisioning with CloudFormation and Terraform, optimized performance with Auto Scaling and health checks, and implemented AWS security best practices, including VPC configurations and IAM policies. Configured AWS CloudWatch and CloudTrail for monitoring and logging, and set up disaster recovery with AWS Backup and Amazon S3.

Additionally, containerized the application using Docker and deployed it to Kubernetes clusters for enhanced scalability and resource management. Automated CI/CD pipelines with Jenkins, triggering builds and deployments on code changes. Leveraged Kubernetes' auto-scaling and load-balancing features to ensure smooth operations under varying loads and used Grafana for monitoring application metrics. - View on GitHub

Terraform to OpenTofu Migration - Migrated infrastructure as code from Terraform to OpenTofu, ensuring compatibility across environments. Automated the migration with CI/CD pipelines, resolved compatibility issues, and improved scalability and maintainability. Documented best practices and provided recommendations for future improvements. - View on GitHub

Cloud Migration - Migrated infrastructure, data, and applications from on-prem data centers to the cloud. Tested cutover replication, ensured high backup success, and monitored migrated servers and metrics. Applied security best practices at both server and storage levels, managed migration assessments, and configured AWS RDS databases with enhanced security.

EXTRA-CURRICULAR ACTIVITIES

- Completed an AWS Cloud and DevOps Course at Naresh i Technologies in November 2024.

- Achieved Microsoft Certified Azure Fundamentals in October 2023, gaining foundational knowledge of Microsoft Azure services, cloud concepts, and solutions deployment in Azure.