

# MOHMED ZERAJUDEEN A

DevOps Engineer

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## Profile summary

Results-oriented DevOps/Cloud Engineer with 3.8 years of experience in building and maintaining CI/CD pipelines, automating infrastructure with Terraform/Ansible, managing AWS infrastructure, and resolving cloud-based application issues. Proficient in AWS, Networking, Terraform, Docker, Kubernetes, Git, and Shell Scripting, with a strong aptitude for rapid learning and problem-solving.

## Technical Skills

**Cloud Computing:** AWS (S3, EC2, CloudWatch, CloudFormation, Autoscaling, Elastic load balancing, ECS, EKS, VPC, IAM, Route53)

**DevOps Skills:** Jenkins, GitHub actions, Argo CD, Docker, Kubernetes, Terraform, Ansible, bash shell scripting, python

**Version Control Systems:** GitHub, Bitbucket

**Security Analysis:** SonarQube, Twistlock

**Observability Tools:** Prometheus, Grafana, CloudWatch

## Professional Experience

### Tata Consultancy Services, Bengaluru - System Engineer

March 22' - Present

- Designed and implemented CI/CD pipelines using Jenkins, reducing deployment time and improving release reliability.
- Managed cloud infrastructure on AWS to ensure high availability and reliability.
- Deployed and managed containerized applications on Kubernetes (EKS) and Docker, ensuring high availability and fault tolerance.
- Strengthened security and compliance by integrating tools like Twistlock, SonarQube and Nexus IQ into DevOps pipelines.
- Collaborated with engineering teams to ensure reliability and fault tolerance of AWS environments, assisting with configurations involving Auto Scaling, Elastic Load Balancing, and multi-AZ deployments.
- Optimized cloud infrastructure on AWS (EC2, S3, VPC, IAM, RDS, DynamoDB), improving cost efficiency and performance.
- Assisted development teams with Docker image builds and Kubernetes deployments, providing guidance and troubleshooting support to maintain application consistency.
- Provided operational support for containerized applications deployed on Kubernetes, ensuring consistent performance and resolving scalability issues.
- Developed and maintained Infrastructure as Code (IaC) scripts and automation tools using Terraform and Ansible for efficient infrastructure management.
- Implemented observability solutions with Prometheus, Grafana, Loki, Jaeger, and OpenTelemetry, improving monitoring, logging, and tracing for distributed systems.

## Projects Managed

### **Orchestrating Infrastructure Deployment: Terraform and GitHub actions Integration**

- Led the implementation of a streamlined infrastructure deployment process by integrating Terraform and GitHub actions.
- This project aimed to automate the provisioning and management of AWS infrastructure through Terraform, while GitHub actions orchestrated the entire workflow, from triggering builds on Git repository changes to deploying and maintaining the infrastructure.
- Embarked on a transformative journey to automate the provisioning and management of AWS infrastructure using Terraform. This project represents a comprehensive implementation, encompassing the creation of a robust AWS stack, integration of key services, and the seamless deployment of applications on Elastic Beanstalk.
- From securing connections with bastion hosts to ensuring scalable application architecture, this initiative revolutionized AWS cloud orchestration.

### **Remote Server Management and Web App Deployment using shell scripting**

- Established a robust network of three virtual machines (VMs) – server, client1, and client2 – to emulate a distributed computing environment.
- The project aimed at enhancing security and efficiency through SSH key based authentication, automated command execution using a Bash script, secure file transfer via scp, and containerization of a web application using Docker.
- Furthermore, Nginx was configured as a reverse proxy to efficiently manage web traffic during deployment.

### **Implementation of CI/CD Pipeline for Microservices Deployment on Elastic Kubernetes Service (EKS)**

- Implemented a comprehensive CI/CD pipeline leveraging Elastic Kubernetes Service (EKS) for orchestrating microservices deployment, solidifying the foundation for seamless continuous integration and delivery. Integrated Jenkins with CI pull requests to automate build triggers, fostering a culture of continuous improvement.
- Orchestrated Docker container deployment to EKS clusters, optimizing resource utilization and scalability while maintaining reliability.

## Education

Master of Computer Application (MCA), Jain University (2021 - 2023)

Bachelor of Computer Application (BCA), St. Claret College (2017 - 2020)

## Certification

AWS Certified Solutions Architect Associate