

Mohammed Ahsan

Sr. DevOps ENGINEER

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EDUCATION

BTech | JNTUH | 2020
Computer Science and
Engineering.

SKILLS

Cloud & Infrastructure:

- AWS
- Terraform
- Linux

CI/CD & GitOps:

- GitLab CI
- Jenkins
- Argo CD

Orchestration:

- Kubernetes
- Docker
- Helm

Automation:

- Ansible
- Python
- Bash

Observability:

- Grafana
- Dynatrace

AI Tools:

- GitHub Copilot
- GenAI

CERTIFICATIONS

CNCF | JUL 2025

Certified Kubernetes
Administrator (CKA)

AWS | DEC 2023

AWS Certified Solutions
Architect – Associate

SUMMARY

Senior DevOps Engineer with 4+ years of experience building and operating cloud-native infrastructure on AWS EKS. Experienced in GitOps practices, automated testing, and infrastructure optimization using Terraform, Jenkins, GitLab CI, Ansible, and Argo CD, with a focus on automation, security, and scalability.

EXPERIENCE

System Engineer, TCS

NOV 2024 - PRESENT

- **Managed Kubernetes add-on lifecycle management:** Researched images, obtained private repo approvals, performed ECR seeding, and validated upgrades using reference applications.
- **Upgraded Terraform providers** (AWS, Kubernetes, Helm) by analyzing change logs, testing compatibility, and implementing updates across environments.
- **Streamlined add-on deployment process** by implementing GitOps practices with Argo CD; upgraded ingress architecture by replacing ALB Controller with Gloo Gateway for improved API management.
- **Configured PodDisruptionBudgets and RBAC policies** for critical add-ons; performed node-drain testing to ensure graceful rollouts and maintain availability during maintenance.
- **Provided L2/L3 platform support:** Resolved add-on issues including outdated components, version conflicts, and cluster compatibility problems; guided teams through upgrade procedures and best practices.
- **Troubleshoot deployment issues and maintained documentation:** Addressed IP exhaustion, resource quotas, ImagePullBackOff errors through infrastructure optimization; authored EKS procedures and troubleshooting runbooks.

Associate Consultant, Capgemini

APR 2021 - NOV 2024

- **Operated AWS infrastructure** (EC2, EBS, ELB, ASG, IAM, VPC) with S3 versioning, cross-region replication, and automated backup for data resilience.
- **Designed Jenkins CI/CD pipelines** integrating GitHub, Maven, and SonarQube for automated testing and deployments; achieved faster, reliable release cycles.
- **Automated infrastructure provisioning** using Terraform for VMs, app services, and load balancers; implemented Ansible for configuration management and credential handling.
- **Monitored infrastructure performance using** ELK Stack & Dynatrace, ensuring high availability and rapid incident resolution.