

Abhiram Usthepalli

DevOps Engineer

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PROFESSIONAL SUMMARY

- DevOps & Cloud Engineer with hands-on experience designing CI/CD pipelines, Kubernetes deployments, GitOps automation, Terraform IaC, and AWS cloud infrastructure.
- Strong background in Linux administration, Docker containerization, system monitoring, and production operations.

EXPERIENCE

Custom Software Engineering Analyst | Accenture

Sep 2021 - Present

- Architected and maintained CI/CD pipelines using GitHub Actions and Jenkins.
- Orchestrated AWS services including EC2, VPC, IAM, S3, EKS, and Load Balancers.
- Deployed applications to Kubernetes using Helm charts, Kustomize, and ArgoCD GitOps.
- Automated infrastructure provisioning with Terraform (VPC, NAT, ECR, IAM, EKS).
- Containerized apps with Docker and optimized build pipelines.
- Developed Linux automation scripts using Bash for server maintenance.
- Integrated monitoring using Prometheus and Grafana dashboards.
- Collaborated with developers to improve deployment reliability and release cycles.

KEY PROJECTS

EKS Infrastructure Automation (Terraform)

- Provisioned a production-grade VPC, EKS cluster, managed node groups, NAT gateway, and ECR.
- Automated IAM roles, aws-auth Config Map, and cluster bootstrap.

GitOps Deployment with ArgoCD

- Configured GitOps pipeline for multi-environment Flask application deployments.
- Managed ArgoCD Applications, auto-sync, health checks, and Rollouts.

Containerized Flask Application on EKS

- Built Docker images, pushed to ECR, deployed using Kubernetes deployments, services, and ingress.

AWS Security & Networking

- Implemented IAM least privilege, role-based access, VPC subnetting, and routing.
- Configured ALB ingress controller, path-based routing, and SSL certificates.

EDUCATION

B.Tech in Electronics & Communication | New Horizon College of Engineering

2017 - 2021

TECHNICAL SKILLS

- Cloud: AWS (EC2, VPC, IAM, EKS, ALB, S3)
- IaC: Terraform, Ansible
- Orchestration: Kubernetes, Helm, ArgoCD, Docker
- CI/CD: GitHub Actions, Jenkins, GitOps
- Tools/OS: Docker, Linux, Bash, Prometheus, Grafana