

Madeep Yampalaku *DevOps & Cloud Engineer*

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PROFESSIONAL SUMMARY

DevOps & Cloud Engineer (AWS SAA, CKA certified) with **3+ years** of hands-on experience designing, automating, and operating scalable **AWS** and **Kubernetes** platforms. Strong expertise in **Amazon EKS, Terraform (IaC), CI/CD automation, and GitOps (ArgoCD)**. Proven track record of **reducing infrastructure costs, accelerating deployments**, and improving reliability through cloud-native architecture and **DevSecOps** best practices

SKILLS

Cloud & Infrastructure: AWS (EC2, VPC, EKS, ECS, S3, IAM, RDS, Lambda, Route 53, WAF), Linux, Ubuntu

Containers & Orchestration: Docker, Kubernetes, Helm, Nginx, Ingress Controller

CI/CD & DevOps Tools: Jenkins, Groovy, GitHub Actions, AWS CodePipeline, CodeBuild, CodeDeploy, ArgoCD

Infrastructure as Code: Terraform, CloudFormation

Monitoring & Logging: Prometheus, Grafana, Loki, Promtail, ELK Stack, CloudWatch, CloudTrail

Security & Compliance: Trivy, SonarQube, Nexus, IAM Policies, AWS Security Best Practices

Scripting: Python, Bash, Shell Scripting

Databases: MySQL, PostgreSQL, DynamoDB

Version Control: GitHub, GitLab

PROFESSIONAL EXPERIENCE

Nepra Resource Management, Software Engineer (DevOps)

07/2024 – Present
Ahmedabad, India (Open to relocate to
Hyderabad/Bangalore)

- Deployed and managed microservices and ML workloads on **AWS EKS, EC2, Docker, Kubernetes, and Nginx**, achieving **99.9% uptime**.
- Designed and provisioned a **production-grade Amazon EKS architecture** using **Terraform**, following AWS best practices with modular infrastructure (**VPC, IAM, EKS, Node Groups**).
- Built and **streamlined CI/CD pipelines** using **Jenkins, Google Play Console API, Trivy, and SonarQube**, reducing deployment time by **35%**.
- Configured **Nginx Ingress Controller, AWS NLB, ACM, and Certbot**, improving application latency by **20%** and enabling secure HTTPS routing.
- Implemented **observability and centralized logging** using **Prometheus, Grafana, Loki, and Promtail**, enabling **25% faster incident resolution**.
- Integrated **Cluster Autoscaler, Metrics Server, and AWS Load Balancer Controller** to support horizontal scaling of Kubernetes workloads.
- Led **EKS cluster and node group upgrades** from **v1.23 to v1.32**, ensuring platform stability and workload compatibility.
- **Optimized AWS control plane and infrastructure architecture**, achieving a **~6x reduction in infrastructure costs**.
- Migrated **GitOps workflows** from **FluxCD to ArgoCD**, improving deployment visibility, auditability, and operational efficiency.
- Provisioned **AWS ECS Fargate infrastructure** using Terraform and orchestrated microservices deployments through **Jenkins CI/CD pipelines**.
- Integrated **DevSecOps practices** into CI/CD pipelines using **Trivy and SonarQube**, enabling automated vulnerability scanning and improving deployment security.
- Implemented **high-availability and fault-tolerant architectures** on AWS using **multi-AZ deployments, health checks, and load balancing**, improving platform resilience.

Auropro Soft Systems Pvt. Ltd., Associate DevOps Engineer

01/2023 – 07/2024 | Hyderabad, India

- Provisioned **AWS infrastructure using Terraform**, improving **EC2 and RDS performance** and boosting operational efficiency by **15%**.
- Engineered **CI/CD pipelines** using **AWS CodePipeline, CodeBuild, and CodeDeploy**, reducing release cycles and deployment effort.
- Strengthened cloud environments by implementing **IAM policies, security groups, and VPC best practices**.
- Built **monitoring dashboards and alerts** using **CloudWatch logs, metrics, and alarms**, improving system reliability and reducing incident response time.
- Developed **reusable Terraform modules** for **VPC, EC2, RDS, IAM, and networking components**, standardizing and accelerating infrastructure provisioning.

EDUCATION

B.Tech in Computer Science and Engineering,
Madanapalle Institute of Technology and Science

2019 – 2023 | Madanapalle, India

- CGPA: 8.6/10

CERTIFICATIONS

- AWS Certified Solutions Architect - Associate (SAA-C03) [↗](#)
- Certified Kubernetes Administrator (CKA) [↗](#)