MADEEP YAMPALAKU

DevOps & Cloud Engineer

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PROFESSIONAL SUMMARY

DevOps & Cloud Engineer with nearly 4 years building and operating production Kubernetes and AWS platforms. Currently build and run a regulated, fully on-premise single-node RKE2 Kubernetes platform inside a bank's own data centre for its IFRS/IGAAP statutory reporting system, with GitOps delivery, Vault-backed secrets and Keycloak SSO over ~150 API endpoints. Previously sole DevOps engineer for a 12-microservice Amazon EKS estate serving ~10,000 users/hour at 99.9% uptime, where I cut cluster cost 83%.

SKILLS

Cloud & Infrastructure: AWS (EKS, EC2, ECS Fargate, Lambda, API Gateway, AppSync, Step Functions, EventBridge, DynamoDB, RDS, S3, VPC, NAT/VPC endpoints, IAM, Cognito, CloudTrail, AWS Config, CloudWatch)
Kubernetes & Containers: Amazon EKS, RKE2, Docker, Helm, ArgoCD, NGINX Ingress, AWS Load Balancer Controller, HPA, Cluster Autoscaler
Infrastructure as Code & Automation: Terraform (modular, multi-account, remote state), Checkov, tflint, GitHub OIDC, Bash, Python, Apache Airflow (KubernetesPodOperator), PySpark
CI/CD: GitHub Actions, GHCR, ArgoCD GitOps, Jenkins, AWS CodePipeline / CodeBuild / CodeDeploy, Trivy, SonarQube
Observability: Prometheus, Grafana, Loki, Fluent Bit, Elasticsearch, CloudWatch
Security & Identity: HashiCorp Vault, Keycloak (SSO, MFA, RBAC), cert-manager, HIPAA-aligned controls, least-privilege IAM design

PROFESSIONAL EXPERIENCE

Orbitnexa Technologies Private Limited, *DevOps & Infrastructure Engineer* 03/2026 – Present | Hyderabad, India

- Built and operate a single-node RKE2 Kubernetes platform running entirely on the bank's on-premise servers with no cloud dependency, hosting its IFRS/IGAAP statutory reporting system; automated the full cluster build, configuration and post-reboot recovery through a phased set of Bash install scripts.
- Implemented HashiCorp Vault with Kubernetes ServiceAccount auth and Agent Injector, removing all plaintext secrets from Git and etcd.
- Automated delivery end to end with GitHub Actions → GHCR → ArgoCD GitOps, using path-filtered builds and automated image-tag promotion into deployment manifests.
- Delivered Keycloak SSO with MFA and role-based access control across ~150 API endpoints, with superadmin-driven user provisioning and role assignment from the application frontend.
- Orchestrated PySpark data pipelines on Kubernetes via Airflow KubernetesPodOperator, with maker-checker approval controls enforced server-side on every financial data change.
- Cut recurring AWS cost on a multi-tenant clinical genomics SaaS platform (Inferagen): replaced 12 VPC interface endpoints (6 per AZ across 2 AZs, for ECR, S3 and similar) with the existing NAT gateway after sizing to actual request volume, and traced an $81/month CloudTrail charge to duplicate events across two trails, removing it ($81 → $0) without losing the HIPAA audit trail.
- Develop and maintain Terraform IaC (20 reusable modules across dev, UAT and prod) for a multi-tenant healthcare lab platform (LIMS) on AWS: AppSync GraphQL API with 140+ operations, 150+ Node.js Lambda functions, 38 DynamoDB tables, Cognito, API Gateway, Step Functions, EventBridge and Amplify-hosted Next.js — 500+ managed resources per environment.
- Migrated LIMS production into an isolated AWS account and automated Terraform delivery with GitHub Actions: OIDC federation in place of stored keys, tflint and Checkov scans, and saved-plan applies behind per-environment gates, with multi-region CloudTrail and AWS Config governance.

Nepra Resource Management, *Software Engineer (DevOps)* 07/2024 – 02/2026 | Ahmedabad, India

- Sole DevOps engineer for the platform: architected production Amazon EKS infrastructure with modular Terraform (VPC, IAM, cluster, managed node groups), owning reliability, release automation and AWS cost across Dev and Production.
- Operated 12 microservices (4 backend, 6 frontend, 2 databases) serving ~10,000 users per hour at 99.9% uptime.
- Authored Kubernetes manifests for Deployments, Services, Ingress, HPA and AWS Load Balancer Controller, with resource limits, health probes and taints/tolerations for workload isolation.
- Reduced monthly EKS cluster cost 83% (~$430 to ~$73) via rightsizing, HPA and Cluster Autoscaler tuning; led cluster upgrades v1.23 → v1.32 with zero downtime.
- Engineered Jenkins CI/CD pipelines with Trivy and SonarQube quality gates (deployment time −35%) and centralized Prometheus, Grafana and Loki monitoring (incident resolution −25%).
- Deployed and maintained ML chatbot services on AWS ECS and EC2.

Auropro Soft Systems Pvt. Ltd., *Associate DevOps Engineer* 01/2023 – 07/2024 | Hyderabad, India

- Provisioned AWS infrastructure (VPC, EC2, RDS, IAM, networking) across Dev and Production using Terraform, with reusable modules to standardize provisioning.
- Created CI/CD pipelines on AWS CodePipeline, CodeBuild and CodeDeploy; improved EC2 and RDS performance 15% through rightsizing and configuration tuning.
- Hardened environments with IAM policies, security groups and VPC best practices; built CloudWatch dashboards and alerting to shorten incident response.

CERTIFICATIONS

- **AWS Certified Solutions Architect – Associate (SAA-C03)** — Issued Nov 2025, valid through Nov 2028 — verify
- **Certified Kubernetes Administrator (CKA)** — Issued Aug 2025, valid through Aug 2027 — verify

EDUCATION

B.Tech in Computer Science and Engineering, Madanapalle Institute of Technology and Science — CGPA: 8.6/10 2019 – 2023