Balaji Reddy Kodudala

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Professional Summary

DevOps Engineer with hands-on experience in cloud infrastructure, CI/CD automation, and container orchestration, backed by AWS Solutions Architect and HashiCorp Terraform Associate certifications. Experienced in managing Kubernetes workloads, automating infrastructure with Terraform and building observability pipelines using Prometheus, Grafana, SigNoz, and Uptime Kuma. Comfortable working across the full DevOps stack including Docker, Kubernetes, GitLab CI/CD and ArgoCD on AWS and Azure environments.

Technical Skills

Cloud & Infra	:	AWS (EC2, S3, Lambda, ELB, Route 53, IAM, CloudFront, VPC, EKS), Azure (RGs, VNet, VMs)
IaC & Config	:	Terraform, Ansible, Hashicorp Vault
CI/CD & Containers	:	GitLab CI/CD, GitHub Actions, Docker, Kubernetes, ArgoCD
Monitoring & Tools	:	SigNoz, Prometheus, Grafana, Uptime Kuma, Git, Cert-Manager, Traefik
Scripting	:	Shell Scripting, Python (working knowledge)

Certifications

AWS Certified Solutions Architect – Associate – Verify

HashiCorp Certified: Terraform Associate (003) – Verify

Experience

DevOps Engineer (Firewires OneIoT) – Kubernetes | ArgoCD | Vault | Traefik | GitLab CI/CD SEP/2025 - PRESENT

⇒ Proposed and assisted in migration of Kubernetes workloads from x86 to AWS ARM instances (m7g) achieving 50%+ better performance for microservices and reducing compute costs by 15-18% across alpha, beta, production clusters.

⇒ Architected and deployed SigNoz as a centralized observability platform on AKS, unifying logs, metrics, and distributed traces from 5 multi-cloud Kubernetes clusters via OpenTelemetry collectors; configured namespace-level log filtering, Kafka JMX metrics scraping, and ClickHouse TTL policies to optimize storage and reduce ingestion noise.

⇒ Migrated and upgraded PostgreSQL databases from AWS to Azure and from PG-16 to PG-18 with zero data loss and minimal downtime; configured automated backups using pgBackRest and deployed databasus to provide a centralized dashboard for backup status and observability across environments.

⇒ Enhanced Kubernetes platform stability by upgrading components, performing cluster maintenance, fixing out-of-sync ArgoCD apps, and occasional CI/CD pipeline fixes.

⇒ Implemented Uptime Kuma, reduced alerting noise and improved observability by fine tuning alert rules and monitors.

Projects *(Full project demos and documentation available on Portfolio and GitHub)*

ROBOSHOP – Microservices Architecture on AWS (Docker | Jenkins | Terraform | Ansible | Monitoring)

→Deployed and managed a *scalable 3-tier microservices architecture* for an open-source e-commerce app.

→**Infrastructure as Code:** Automated AWS infrastructure (VPC, subnets, ALBs, S3 logging, NAT, HTTPS) using Terraform

→**Configuration:** Provisioned and configured services using Ansible playbooks and shell scripts for idempotent deployments.

→**Containerization**: Containerized 10+ microservices and deployed via Docker Compose; hosted images on Docker Hub.

→**CI/CD Automation:** Built a Jenkins pipeline triggered by GitHub webhooks to detect code changes, build and push Docker images to Docker Hub upon approval, and deploy updated containers seamlessly.

→**Network & Security:** Isolated app and DB tiers in private subnets; routed traffic securely via ACM-based HTTPS through ALBs.

Cloud Resume – Serverless AWS Web App (AWS lambda | DynamoDB | CDN | S3 | Terraform | Jenkins)

→Designed and deployed a *fully serverless web application* on AWS to host personal resume site with integrated visitor counter.

→Hosted responsive resume site on S3 with HTTPS via CloudFront and custom domain via Route 53.

→Used Python-based Lambda function with DynamoDB to track visitor count; integrated with frontend via Function URL.

→Defined all AWS infrastructure (S3, CloudFront, Lambda, DynamoDB, IAM, Route 53) using Terraform. Built CI/CD pipeline in Jenkins to automate infrastructure updates.

Education

Lovely Professional University — Bachelor of Science in Agriculture *(Hons)* June 2023