

# BALAJI REDDY KODUDALA

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## Professional Summary

Aspiring DevOps Engineer with certifications in AWS and Terraform, and work experience demonstrating CI/CD automation, containerization, and infrastructure provisioning. Eager to learn and contribute through internships or entry-level roles in cloud and DevOps teams.

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## Technical Skills

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| <b>Cloud &amp; Infra</b>      | : | AWS (EC2, S3, Lambda, ELB, Route 53, IAM, CloudFront, VPC, EKS) |
| <b>IaC &amp; Config</b>       | : | Terraform, Ansible  |
| <b>CI/CD &amp; Containers</b> | : | GitLab CI/CD, GitHub Actions, Docker, Kubernetes                |
| <b>Monitoring &amp; Tools</b> | : | Prometheus, Grafana, Uptime Kuma, Git, GitHub, ArgoCD, Vault    |
| <b>Scripting</b>              | : | Shell Scripting, Python (developing proficiency)                |

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## Certifications

AWS Certified Solutions Architect – Associate – [Verify](#)

HashiCorp Certified: Terraform Associate (003) – [Verify](#)

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## Experience

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

- ⇒ Proposed 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.
- ⇒ Implemented Uptime Kuma, reduced alerting noise and improved observability by fine tuning alert rules and monitors.
- ⇒ Configured automatic backups that uses Cronjob pods and S3. Created a Python API that fetches latest backups and provides a visual dashboard for ease of observability.
- ⇒ Built ARM-compatible images for services lacking native ARM support and enhanced security by refactoring existing Docker images to run as non-root users.
- ⇒ Enhanced Kubernetes platform stability by upgrading components, performing cluster maintenance, fixing out-of-sync ArgoCD apps, CI/CD pipeline fixes.
- ⇒ Successfully migrated and upgraded PostgreSQL databases from AWS to Azure, ensuring zero data loss and minimal service downtime. Configured automatic backups using Pg\_backrest.

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## 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 with a strong focus on infrastructure and CI/CD automation.
- **Infrastructure as Code:** Automated AWS infrastructure (VPC, subnets, ALBs, S3 logging, NAT, HTTPS) using Terraform
- **Configuration:** 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.

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## Education

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

June 2023