Lalith Charan Ampabathina

Ph: 9966404900 | Email: lalithcharan1410@gmail.com | LinkedIn | GitHub

Professional Summary:

DevOps Engineer with 2+ years of experience automating software delivery, managing CI/CD pipelines, container orchestration, and implementing Infrastructure as Code (IaC) on AWS and Azure. Skilled in Kubernetes, Docker, Jenkins, Argo CD, Terraform, and Ansible. Experienced in streamlining deployments, optimizing application performance, and integrating DevSecOps practices with SonarQube, Trivy, and Vault. Strong understanding of cloud-native architectures and GitOps workflows.

TECHNICAL SKILLS:

- **CI/CD Tools** : Jenkins, GitLab CI, AWS CodePipeline, Argo CD
- **Containerization** : Docker, Docker Hub
- **Orchestration** : Kubernetes, Amazon EKS, OpenShift
- **Cloud Platforms** : AWS (ECS, EKS, ALB, CodeBuild, CodeDeploy), Azure
- **Infrastructure as Code (IaC)** : Terraform, Ansible
- **Source Code Management** : Git, GitHub, GitLab, AWS CodeCommit
- **Monitoring** : Prometheus, Grafana
- **Logging & Observability** : ELK Stack (Elasticsearch, Logstash, Kibana), EFK Stack (Fluentd), Fluent Bit
- **Security & Compliance** : Trivy, SonarQube, OWASP Dependency-Check, HashiCorp Vault
- **Scripting & Languages** : Shell, Python, Groovy, YAML
- **Artifact Management** : Nexus 3, Docker Hub
- **Operating System** : Linux (RHEL, Ubuntu), Windows
- **Build Tool** : Maven (Basics)

Professional Experience:

Tata Consultancy Services (TCS) – *DevOps Engineer*
📍 *June 2023 – Present* | India
Environment: Git, GitLab, Jenkins, Argo CD, Docker, Kubernetes, Trivy, Prometheus, Grafana, Apache Tomcat
Responsibilities:
- Built and maintained CI/CD pipelines using Jenkins, Argo CD, Nexus, SonarQube, and Git, reducing release cycle time by **65%** and deployment errors by **80%**.
- Designed multi-stage Docker builds and implemented secure image lifecycle policies in Docker Hub, shrinking image size by **70%** and improving build time by **40%**.
- Managed Kubernetes clusters for **60+** microservices, configuring deployments, services, ingress, PV/PVC, and HPA, achieving **99.9%** uptime.
- Implemented GitOps with Argo CD and declarative manifests, doubling deployment traceability and environment consistency.
- Integrated Trivy and OWASP Dependency-Check scans into pipelines, blocking **200+** critical vulnerabilities pre-production.
- Created Prometheus/Grafana dashboards for JVM heap, error rates, and latency; reduced MTTD by **60%** and MTTR by **45%**.
- Automated SSL certificate renewal for NGINX ingress, eliminating downtime from expired certs.
- Linked GitLab with Jenkins (Groovy/Shell) to expand automation by **75%**, halving manual deployments.
- Centralized logging for **250+** pods with EFK and Fluentd-to-Elasticsearch, reducing debugging from hours to minutes.
- Mentored **5+** engineers on DevOps workflows, reducing onboarding time by **50%**.

PROJECTS:

1. Automated CI/CD Pipeline for Microservices
Tech Stack: Jenkins, Git, Docker, Kubernetes, Argo CD, Harbor, SonarQube

- Developed a single-branch, multi-environment (dev/stage/prod) Jenkins pipeline, reducing maintenance by 50%.
- Enforced code quality gates via SonarQube and vulnerability scans, lowering post-deployment defects by 35%.
- Implemented Harbor retention policies, reclaiming 30% of registry space.
- Achieved 80% fewer manual errors with full pipeline automation.

2. Centralized Logging & Monitoring Stack
Tech Stack: Prometheus, Grafana, Loki, Alertmanager

- Automated Kubernetes service discovery in Prometheus to monitor 250+ pods/nodes.
- Built Grafana dashboards for JVM, API latency, and error trends, improving issue detection by 40%.
- Set up Loki-based alerts to detect recurring error patterns in real time, preventing repeated incidents.
- Cut troubleshooting time by 67% (2 hours → 40 minutes).

EDUCATION:

Bachelor of Technology (B.Tech) in Electronics & Communication Engineering (ECE)
Sri Venkateswara College of Engineering, JNTUA, [Tirupati, Andhra Pradesh] - *Graduated: 2022*
- CGPA: **7.69 / 10** (73%)

Diploma in Electronics & Communication Engineering (ECE)
Government Polytechnic, [Proddatur, Andhra Pradesh] — *Completed: 2019*
- Percentage: **89.08%**

Secondary School Certificate (State Board)
ST MARYS HIGH SCHOOL, [JAMMALAMADUGU, Andhra Pradesh] — *Completed: 2016*
- CGPA: **9.0 / 10**

ACHIEVEMENTS:

- Reduced deployment time by 87% (2h → 15m) via CI/CD automation.
- Migrated 40+ apps from manual to Kubernetes/GitOps, increasing reliability by 40%.
- Raised deployment frequency 5× (weekly → daily) with workflow optimization.
- Delivered Kubernetes workloads in 3+ air-gapped environments with full CI/CD capability.
- Authored onboarding documentation, cutting ramp-up from 4 weeks to 2.