

NITESH KUMAR

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Professional Summary

DevOps Engineer with **over 2 years** of experience architecting production **AWS/Kubernetes** infrastructure — **CI/CD, GitOps, and observability** — with production ownership and a backend foundation in Java/Spring Boot.

Education

HKBK College of Engineering

Bachelor of Technology in Computer Science and Engineering (CGPA: 8.1)

Dec 2020 - June 2024

Karnataka, India

Experience

Lumber — Bangalore, India

Aug 2024 – Present

DevOps Engineer

Mar 2025 – Present

- Solely owned **end-to-end deployment of 52+ production-grade services** across **5 Kubernetes clusters** (Python, Java, and Node.js stacks) — Dockerization, Helm charts, manifests, CI/CD wiring, secrets, and observability.
- Drove org-wide **GitOps adoption** by migrating all services to **ArgoCD** — automated sync, self-heal, drift detection, and **one-click rollbacks** with full deployment audit history.
- Migrated secrets management from Ansible playbooks to a **HashiCorp Vault** cluster using **AppRole authentication** in a **hub-and-spoke model**, centralizing secret storage, access control, and rotation across all environments.
- Cut **~\$4,800/month in AWS spend** via Athena partitioning (**99% cost cut**, \$1,700 to \$9/month), single-AZ non-prod RDS/EKS, and automated off-hours shutdowns; added org-wide tagging and billing alerts.
- Architected **end-to-end monitoring** with kube-prometheus-stack (**Prometheus, Grafana, Loki, Alertmanager**); alerting spans AWS services (RDS, EC2) down to pod crashes and CPU spikes.
- Instrumented all services with **OpenTelemetry distributed tracing** and structured JSON logging; integrated **Coralogix** for unified logs/metrics/traces and enabled its **CSPM** module, surfacing **60+ security findings**.
- Migrated infrastructure, including Jenkins build machines, from **AMD64 to ARM64 (AWS Graviton)** with multi-platform Docker builds for all 52+ services, improving performance and reducing compute costs.
- Architected a **fully isolated AWS environment** (dedicated VPC, EKS, subnets, IAM roles, Kubernetes RBAC) to meet a client's strict **network segregation requirements**.
- Deployed **AWS WAF** in front of load balancers and API gateways to block **bot and malicious traffic** at the edge, blocking **44K+ malicious requests/month** and hardening the application security posture.
- Solely drove infrastructure **SOC 2 Type 1 & 2** compliance — remediated weak **TLS/CBC cipher suites** (flagged by **testssl.sh**) via load balancer policy updates to clear a blocking audit finding.
- Engineered **CI/CD workflows** for Python, Java, and Node.js apps running **unit, integration, and Playwright tests at PR time**; optimized Jenkins pipelines with parallel stages, **accelerating builds by 27%**.
- Embedded **Trivy** image scanning and **Veracode SAST/DAST** across all build pipelines (**shift-left DevSecOps**), remediating **25+ CVEs** to strengthen supply-chain security.
- Resolved recurring **OutOfMemory (OOM) crashes** in production by provisioning Kubernetes PVCs to capture **JVM heap dumps** on crash, enabling root-cause analysis and permanent fixes.
- Provisioned **Windows-based sandbox environments** for **5+ integration partners** (Acumatica, Sage 100, Sage 300, EiDynamics), enabling end-to-end partner testing before production.
- Led **incident response** for critical production issues — storage shortages blocking deployments, bastion host crashes, zero-downtime node group migrations, subnet/IP exhaustion — reducing **Mean Time To Resolution (MTTR)**.

Software Development Engineer Intern

Aug 2024 – Feb 2025

- Optimized API performance** by identifying and eliminating bottlenecks in functions and database calls using **YourKit profiler**.
- Slashed **data storage footprint by 13%** by eliminating duplicate entries in **Postgres audit tables**, reducing infrastructure cost and query load.
- Drove **unit test coverage >93%** across a multi-module Spring Boot application, reducing regression issues.

Technical Skills

Languages & Scripting: Python, Bash, Git, Linux/Unix

Cloud & Infrastructure: AWS (EC2, EKS, ECR, RDS, MSK, S3, VPC, IAM, CloudWatch, Athena), Kubernetes, Docker, Terraform, Ansible, IaC, FTP, SMTP, Serverless Redis

CI/CD: Jenkins, GitHub Actions, GitOps (ArgoCD)

Observability: Prometheus, Grafana, Alertmanager, Postgres Exporter, ELK, SLO/SLI, OpenTelemetry, Coralogix, New Relic

Data & Messaging: Apache Kafka, Event-Driven Architecture

Security & Compliance: Trivy, Veracode, HashiCorp Vault, AWS WAF, SAST/DAST, SOC 2