

DEEPAK REDDY KOLAGATLA

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Summary

Senior DevOps Engineer with 5 years of experience, recognized for architecting a developer platform that accelerated application onboarding by 33% for over 20 engineering teams. Successfully optimized deployment operations and improved incident response time by 42%, saving significant engineering hours. Seeking to leverage expertise in Kubernetes, CI/CD automation, Cloud and security scanning to drive continuous improvement and innovation in complex technical environments.

Experience

Morgan Stanley

Bangalore, India

Senior DevOps Engineer (SDE-3)

December 2023 - Present

- Architected and deployed an internal hybrid-cloud developer platform using Kubernetes, Helm, ArgoCD, Terraform, and AWS-integrated infrastructure services, accelerating application onboarding by 33% and supporting 20+ engineering teams within 9 months.
- Designed and managed Infrastructure-as-Code (IaC) workflows using Terraform for Kubernetes platform provisioning, environment standardization, secrets integration, and scalable infrastructure lifecycle management, which reduced deployment errors by 35% and improved stability.
- Spearheaded the integration of Jenkins, FluxCD, and Helm into advanced CI/CD pipelines, streamlining deployment operations across diverse environments and enabling seamless rollback and approval workflows for 20+ product teams, reducing lead time by 20%.
- Architected centralized observability strategy using Prometheus, Grafana, and Loki, creating the first automated system that decreased response time by 42% and enabled issue detection, saving 250+ operational hours.
- Developed a fully automated TLS/SSL certificate lifecycle management system for Kubernetes, leveraging Vault and cert-manager, which slashed certificate-related production incidents by 95%.
- Implemented Neo4j backup and recovery pipelines triggered automatically post-deployment after each data synchronization, ensuring consistent data protection and enabling zero data loss recovery for 100% of production environments.
- Integrated SAST security scanners into CI/CD pipelines, automating vulnerability detection across 20+ microservices and decreasing average remediation time by 35% using tools such as SonarQube, Snyk.
- Engineered PolicyGPT, a GenAI-powered RAG assistant utilizing OpenAI embeddings and Neo4j vector search, facilitating semantic policy discovery across 1,000+ compliance documents and improving governance-team productivity.
- Partnered with infrastructure teams to strengthen AWS and on-prem Kubernetes environments by implementing robust solutions for networking, secrets management, and infrastructure governance.

Wiley India

Bangalore, India

DevOps Engineer (SDE)

July 2021 - December 2023

- Built and owned a hybrid-cloud governance platform using Python Flask, IBM DB2, AWS services, and Terraform-driven infrastructure automation, improving platform usability by 27% and streamlining developer workflows.
- Automated ServiceNow operational workflows using Python and Ansible, reducing manual effort and operational overhead by approximately 30%.
- Managed Kubernetes (K8s) deployments using Helm across hybrid infrastructure environments, supporting scalable container orchestration, standardized deployments, and improved release reliability.
- Spearheaded migration of 67 applications from disparate legacy monitoring tools to a centralized observability stack using Prometheus, Grafana, Loki, and AWS-integrated monitoring services, implementing FinOps practices to reduce annual monitoring costs by \$500K.
- Developed centralized logging, alerting, and custom Prometheus exporters (SNMP, Blackbox, custom exporters) using Python, improving observability, infrastructure reliability, and operational efficiency across distributed systems.
- Engineered and maintained Kafka Connect integrations for 30+ microservices over a 24-month period using Confluent Platform tools deployed on containerized infrastructure, reducing data pipeline latency by 42%.

Education

Bachelor of Technology (Computer Science and Engineering)

Andhra Pradesh, India

Vignan's Lara Institute of Technology • 8.33

2021

- Certificate of Merit in Academics - CSE Department, 3rd Semester

Skills

Cloud & Infrastructure: AWS (EKS, ECR, EC2, IAM, VPC, S3, CloudWatch), Terraform, Ansible, Linux, Networking, Infrastructure as Code (IaC), Hybrid Cloud

Containers & Orchestration: Kubernetes, Helm, ArgoCD, FluxCD, Docker, cert-manager, Vault

CI/CD & Automation: CI/CD, Github Actions, CI/CD Pipelines, GitOps, SAST, Snyk, OPA, Blue-Green Deployment, Jenkins

Observability & SRE: SLI/SLO, Error Budgets, Prometheus, Grafana, MTTR, Datadog, ELK Stack, OpenTelemetry, Incident Management, Toil Reduction, Distributed Monitoring, Alert Manager, Log Aggregation, Metrics Collection, Distributed Tracing

AI/Platform Engineering: RAG, OpenAI Embeddings, Vector Search, Platform Engineering, Internal Developer Platform, IDP

Programming & Data: Python, Bash, YAML, Node.js, Kafka, Apache Airflow, Neo4j, GraphQL, REST APIs, Power Shell, SQL, PostgreSQL, Shell Scripting