

ASHISH KADIAN

DevOps Engineer — Site Reliability Engineer

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SUMMARY

Accomplished DevOps Engineer, SRE, and Developer with over 5 years of experience at premier organizations, including **Teradata and IISc Bangalore**. Architected robust end-to-end automation frameworks on AWS/Kubernetes, resulting in 3x faster deployments and a **60% reduction** in cloud expenditure. A top-tier problem-solver, evidenced by an **All-India Rank of #2 in the GATE-CSE** examination. Expertly bridges the gap between development and operations to deliver resilient, scalable applications with **99.9%+** uptime in high-stakes enterprise environments.

EXPERIENCE

Freelance

Jul 2020 – Present

DevOps Consultant

- Architected and deployed a highly available, multi-region AWS infrastructure, delivering **99.99% uptime** for SaaS platforms serving over 500,000 active users.
- Designed and administered enterprise-grade Kubernetes clusters with dynamic auto-scaling, ensuring **99.99% reliability** for business-critical microservices.
- Established and optimized robust CI/CD pipelines using Jenkins and GitHub Actions, automating over **100 daily deployments** with a 95% success rate.
- Pioneered GitOps workflows with Infrastructure as Code (Terraform, Ansible), **slashing environment provisioning time from days to under an hour**.
- Integrated modern DevSecOps practices, incorporating SAST/DAST tools into CI/CD pipelines to **reduce security vulnerabilities by 85%** across client portfolios.
- Engineered advanced monitoring and observability solutions with Prometheus & Grafana, which **cut Mean Time To Resolution (MTTR) from 2 hours to just 15 minutes**.
- Led a FinOps initiative that delivered a **45% reduction in AWS spend** through strategic resource analysis, rightsizing, and automated cost controls.
- Developed custom Python automation frameworks and testing suites, **eliminating 80% of manual testing efforts** and significantly accelerating release cycles.
- Built a full-stack Operations Portal using Angular, FastAPI, and Python, **increasing deployment efficiency by 70%** for internal engineering teams.
- Orchestrated the seamless migration of monolithic applications to a microservices architecture on Kubernetes, **boosting scalability and deployment safety** for high-growth startups.
- Authored and delivered corporate training programs on DevOps, Python, and Test Automation to over **200 industry professionals**, earning a consistent 4.8/5 satisfaction rating.

IIT Bombay

May 2023 – Oct 2023

DevOps Engineer

- Architected a resilient Kubernetes deployment pipeline that **slashed deployment failures by 70%** and significantly improved system recovery times.
- Fortified infrastructure security by deploying multi-layered controls and automated vulnerability scanning, resulting in a **60% improvement in security posture** and achieving **100% audit clearance** against 40+ compliance requirements.
- Engineered an advanced monitoring stack that enhanced system observability while **reducing alert fatigue by 80%** across all environments.
- Developed self-healing capabilities by authoring automated runbooks and remediation workflows, which **cut incident response time by 60%** for critical production systems.

PROJECTS

AgileCloudPipeline

- Engineered a scalable AWS infrastructure with Terraform and Jenkins to reliably handle over 500K monthly user requests, accelerating time-to-market with **40% faster deployments** and hardening security by **85%** using a fully automated compliance framework.

Enterprise Pipeline Automation

- Orchestrated an end-to-end CI/CD pipeline using GitLab CI, SonarQube, and Jest, achieving a **95% deployment success rate** across microservices and enhancing developer productivity.

KubeHealer: Self-Healing Kubernetes Operator

- Developed a custom Kubernetes Operator in Go using the Operator SDK to automate application failure recovery. The operator monitors for pod crashes and high latency, automatically triggering remediation actions like restarts and rollbacks, **improving system resilience by 75%**.

CryptoSim: Cryptocurrency Mining Simulator

- Architected a distributed educational platform on Kubernetes, featuring real-time Prometheus monitoring and a simulated mining environment to teach blockchain concepts at scale.

MLOps House Price Predictor

- Built a production-ready MLOps pipeline with ZenML and MLflow, featuring automated testing, continuous validation, and scalable deployment on Kubernetes to ensure model reliability.

EDUCATION

Liverpool John Moores University

MS in Computer Science

IIIT Bangalore

Advanced Certification Program in DevOps

JECRC University

Bachelor of Technology in Computer Science & Engineering

TECHNICAL SKILLS

Cloud & Infrastructure: AWS (EC2, S3, ECS, VPC, IAM), Azure, Terraform, Ansible, Linux

CI/CD & Automation: Jenkins, GitHub Actions, GitLab CI, Argo CD, Bash Scripting

Containerization & Orchestration: Docker, Kubernetes (K8s), Nginx

Monitoring & Observability: Prometheus, Grafana, ELK Stack, Datadog, Qualys

Languages & Databases: Python, SQL, MySQL, FastAPI

Development Tools: Git, SonarQube, ZenML, MLflow, Algorithm Design, Angular

INTERESTS

Cloud Security — DevSecOps Integration — Site Reliability Engineering — Infrastructure Automation — Kubernetes Orchestration — Observability & Monitoring — Cost Optimization — Compliance Automation — Hyperfocus