

Aditya Kale

DevOps Engineer

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Summary

DevOps Engineer with 3.5+ years of experience in designing and deploying scalable cloud architectures with a focus on automation and efficient workflows. Expertise in leveraging AWS services (EKS, EC2, S3, ELB, VPC) for cloud infrastructure management and Python for developing automation scripts, web applications, and ALM tool automation using JIRA REST API. Skilled in containerization with Docker and Kubernetes, and implementing monitoring solutions with Grafana, Prometheus.

Recently led end-to-end development of a custom AI chatbot using Vertex AI, from model selection and prompt engineering to full-stack deployment. Built AI-driven tools and agents for automated test case generation, code review, and requirements analysis enhancing efficiency in automotive AUTOSAR projects.

Professional Experience

Software Engineer, ([REALTHINGKS](#))

Maharashtra-Pune, India 07/2022 - Present

- Deployed and maintained CNCF ecosystem tools (Jenkins, JFrog, Grafana) and containerized applications on Kubernetes, designing robust CI/CD pipelines with Docker, custom agents, and automated workflows.
- Architected a unified monitoring platform using Grafana and Prometheus, consolidating metrics from multiple clusters and environments into a single observability layer. Automated alerting and incident detection for infrastructure, CI/CD, and application performance across hybrid systems. [Multi-Cluster Monitoring using Grafana and Prometheus](#).
- Developed robust, scalable, and production-ready Flask web applications, implementing secure and efficient API endpoints for seamless integration with frontend systems and third-party services.
- Implemented cost-efficient hybrid CI/CD ecosystem combining on-prem Windows build servers with cloud-based Linux clusters on Kubernetes. Automated Jenkins pipelines with PR-based triggers, nightly builds, and scalable agents—achieving 50
- Led the end-to-end migration of containerized services from Docker Swarm to Amazon EKS, rebuilding the Kubernetes cluster from scratch to improve scalability, performance, and reliability. Deployed CNCF tools such as Jenkins, JFrog, Grafana, and Prometheus on EKS using open-source solutions to minimize costs.
- Built and deployed a scalable Flask-based “JiraSync” platform on Kubernetes that automated JIRA ticket synchronization between internal and customer systems, eliminating duplicate effort and transforming team collaboration across projects..
- Developed and deployed a centralized code quality monitoring system by integrating Jenkins with Grafana, InfluxDB, and PostgreSQL to visualize static and dynamic analysis metrics—enabling teams to track code coverage, test results, and quality trends across multiple projects in real time.[Code Quality Metrics in Grafana](#).
- Created custom Python tools to automate complex tasks, including code generation, data processing, and clean-up scripts, helping internal teams optimize their workflows and improve productivity.
- Initiated and led a Proof of Concept (PoC) in Generative AI—from model selection to evaluation—using advanced prompt engineering to identify the most suitable LLM for the specific Automotive use case.
- Designed and deployed a custom, private chatbot using Vertex AI. Managed complete frontend and backend integration, ensuring secure and seamless interaction across internal systems.[Openwebui with vertex AI](#).
- Leveraged Google’s Vertex AI and Lovabale to create specialized AI tools that assist the team in generating test cases and analyzing requirements,Fix Misra Violation significantly improving efficiency and reducing manual effort.

Cofounder and CTO, ([TrendingDoors](#))

Nashik, India 2018 - 2021

- Developed an Android-based platform connecting local vendors with customers.
- Managed end-to-end development and deployment of the application.

Online Courses & Certifications

- AWS Certified Solutions Architect - Associate (SAA-C03) ([Link](#))
- Docker Mastery: with Kubernetes + Swarm - Docker Captain - Udemy
- Python Masterclass - OOPs - Udemy

- MATLAB-Simulink (MBD) - Skill-Lync
- ChatGPT Prompt Engineer - Udemy
- Ethical Hacking - Udemy

Education

MS in Electrical Vehicle [Skill-Lync](#)

Bangalore, India 2021-2022

Specialized in Design and analysis of Electrical Vehicle.

BE in Electrical Engineering [RH Sapat College of Engineering](#)

Nashik, India 2016-2020

Core Subjects: Electrical Engineering.

Skills

- **Data Visualization & Monitoring:** Grafana, Prometheus, Loki, InfluxDB, pgAdmin
- **Programming:** Python, MATLAB-Simulink, Batch, Shell (Linux), YAML, JSON, XML
- **Containerization:** Docker, Docker Swarm, Kubernetes, NGINX Ingress Controller, Traefik, Image Registry
- **CI/CD & Automation:** Jenkins (incl. Plugins), GitHub Actions, Terraform, Ansible, JFrog Artifactory, Bitbucket
- **Cloud Platforms:** AWS (EKS, EC2, S3, ELB, VPC), GCP
- **APIs:** REST, Webhooks, FastAPI, Postman, Certbot (SSL/TLS automation)
- **Database, Tools & Methodologies:** PostgreSQL, AUTOSAR, ASPICE, JIRA
- **AI Tools:** Google Vertex AI, Firebase, Ollama, ADK (Agent Development Kit), Open WebUI, Lovable
- **Soft Skills:** Analytical Thinking, Teamwork, Adaptability

Achievements

- Designed and developed a comprehensive CI/CD platform from scratch, streamlining the deployment pipeline and improving development efficiency.
- Mentored and trained junior engineers on container orchestration technologies, enhancing team skills and accelerating project delivery.
- Recognized for implementing quality gates for Python code and establishing coding guidelines, resulting in improved code quality and maintainability.
- Acknowledged for taking on the role of Scrum Master and representing the team in customer-facing meetings, ensuring smooth project execution and client satisfaction.

Websites

- <https://aditya.profile.opsbox.in/>
- <https://www.linkedin.com/in/aditya-kale-8aaa26197/>
- <https://adityakale732.medium.com/>
- <https://github.com/adimavic/>