

# Akshay Rathod

## Software Engineer | Python Backend | Docker | Kubernetes | GCP | Cloud

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### Professional Summary

Software Engineer with 2.5 years of experience in Python backend development and containerized applications. Experienced in building REST APIs, working with Docker, Kubernetes, and GCP, and developing GPU-enabled workloads using CUDA runtime. Skilled in backend development, API design, and deployments in cloud-based and containerized environments.

### Technical Skills

Languages: Python

Frameworks/Libraries: Flask, FastAPI, OpenCV

DevOps & Container: Docker, Kubernetes, GitHub, CI/CD, Git, Linux

Cloud: GCP, AWS (EC2, S3, IAM, VPC, RDS)

Databases: MySQL, PostgreSQL

### Professional Experience

*Software Developer* — *Think360.AI*

Dec 2025 – Feb 2026 | Mumbai

#### **KwikID Platform** - Digital KYC System (CKYC & VKYC Modules)

- Developed and maintained REST APIs for KYC workflows using Flask and PostgreSQL
- Implemented Admin and Agent backend APIs for new features and workflow updates
- Handled deployment support, environment configuration, and testing
- Fixed security vulnerabilities identified during VAPT testing
- Worked on backend changes for multi-tenant architecture support

*Software Engineer* — *Insightzz* (MLIT-18 Technologies Pvt Ltd).

Apr 2024 – Sep 2025 | Pune

#### **Wagon Inspection System** - Real-time railway defect detection platform

- Worked on real-time GPU-accelerated inference pipelines using Python, OpenCV, and CUDA, improving stability and performance
- Developed backend services for orchestration, configuration management, and API workflows
- Built GPU-enabled Docker containers using NVIDIA CUDA runtime to run inference workloads with PyTorch, Detectron2, and OpenCV using host GPU
- Handled deployment setup and environment configuration for backend and inference app
- Worked on large Python modules for processing inference results and generating analysis from JSON-based data

#### **Tata Steel Surface Detection** - Industrial AI inspection system

- Deployed and supported real-time inference and analytics applications in live industrial env
- Worked on application components for backend processing and system integration
- Improved system accuracy by optimizing dataset inputs and configuration parameters
- Worked with application databases including data handling, backups, and monitoring

*Software Developer* — *CodeArray Technologies Pvt Ltd*

Dec 2022 – Aug 2023 | Mumbai

#### **Medisetter Doctor Network** - Healthcare platform

- Developed Flask REST APIs in a microservices-based architecture
- Implemented async task processing using Celery and RabbitMQ
- Collaboratively worked with the team to set up the production environment and later independently managed staging and production environments
- Worked on CI/CD deployment workflow using Cloud Build
- Deployed services on GKE, Compute Engine, Cloud Run and AWS EC2
- Designed production infrastructure with Cloud CDN improving performance by 65%

### Education

B.Sc. Information Technology — University of Mumbai (2020)

### Certifications

- Introduction to Containers, Kubernetes & OpenShift V2 – IBM (2024)
- Docker Essentials: A Developer Introduction – IBM (2024)
- Docker Training Course for the Absolute Beginner – KodeKloud (2023)
- DevOps Pre-Requisite Course – KodeKloud (2023)