

ROHAN DAHIHANDE

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PROFESSIONAL SUMMARY — Innovative and detail-oriented Backend Developer with hands-on experience in building AI-driven and data-intensive applications using Python, FastAPI, Flask, and MongoDB. Proficient in designing scalable architectures, containerized deployments, and intelligent automation workflows. Adept at transforming business requirements into reliable, high-performance systems with measurable results. Passionate about continuous learning, clean code, and collaborative problem-solving in agile environments.

EDUCATION

Bachelor of Engineering (Computer Engineering)	6/2025
GPA: 7.10	
H.S.C. (Higher Secondary Certificate)	8/2021
75.67%	
S.S.C. (Secondary School Certificate)	5/2019
63.20%	

EXPERIENCE

Automaton AI Infosystem Pvt Ltd, Pune — Software Engineer	Aug 2025 – Present
– Contributing to the design and development of scalable, AI-driven backend systems for enterprise document and analytics platforms.	
– Leading backend development using Django and Flask, optimizing database performance, and ensuring efficient deployments.	
– Collaborating with cross-functional teams to enhance system scalability, reliability, and maintainability across environments.	
Automaton AI Infosystem Pvt Ltd, Pune — Software Intern	Dec 2023 – Jul 2025
– Developed and deployed production-ready APIs and backend logic for document processing and analytics platforms.	
– Optimized Flask and MongoDB integrations, improving data query efficiency and API response times.	
– Collaborated on real-time dashboards and alerting systems, contributing to faster anomaly detection and operational insights.	
– Gained hands-on experience in containerization, debugging, and writing maintainable, modular Python code in an agile setup.	

PROJECTS

- 1-. Document Processing System**
 - Engineered robust backend pipelines for large-scale document ingestion, intelligent text extraction, and metadata management.
 - Designed and deployed scalable microservices using Flask-API, MongoDB, and Docker, improving system reliability and throughput.
 - Integrated advanced NLP modules to enable intelligent document search, tagging, and classification.
 - Contributed to end-to-end deployment strategies by streamlining Docker-based containerization workflows and optimizing performance across development, staging, and production environments.
 - Implemented secure Single Sign-On (SSO) authentication using Google API for seamless user access.
 - Developed an AI service layer using FastAPI to handle asynchronous callbacks and inference results from machine learning models.
 - Automated real-time USD-INR currency comparison through scheduled cron jobs for usage of Chat and Summarization Chart, enhancing data accuracy and monitoring.
 - Designed and optimized complex MongoDB aggregation pipelines for efficient financial data computation and analytics.
 - Improved document processing efficiency by automating metadata handling and AI-based classification.
- 2-. OpsDash: Operational Dashboard & Alert System**
 - Designed and implemented data ingestion pipelines with Pandas and NumPy for large-scale preprocessing and transformation.
 - Developed microservices using Flask and FastAPI integrated with MongoDB to power real-time industrial alerting and yield analytics dashboards.
 - Enabled live monitoring, anomaly detection, and predictive insights through scalable backend services and optimized data flows.
 - Automated end-to-end report generation by building dynamic PDF and Word document pipelines using Pydantic, FPDF, python-docx, and GridFS, with integrated email dispatch and archival workflows.

- Containerized the system using multi-stage Docker builds and Docker Compose, optimizing networking, environment configurations, and multiprocessing for high-performance execution.
- Authored and maintained comprehensive API documentation to ensure seamless cross-team integration and maintainability.
- Leveraged Jira, Git, and Docker for agile project management, version control, and deployment automation.
- Enhanced operational decision-making through real-time analytics and automated reporting workflows.

TECHNICAL SKILLS

- **Programming Languages:** Python, C
- **Frameworks:** Django, FastAPI, Flask
- **Databases:** MongoDB, MySQL, PostgreSQL
- **Libraries:** Pandas, NumPy, Pymongo, APScheduler
- **Tools & Platforms:** Docker, Git, Jira, Postman, Excel, JWT
- **Concepts:** REST APIs, Microservices, NLP, Data Processing, Containerization