

# 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

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

## EXPERIENCE

<b>Automaton AI Infosystem Pvt Ltd, Pune — Software Engineer</b>	<i>Aug 2025 – Present</i>
<ul style="list-style-type: none"><li>Contributing to the design and development of scalable, AI-driven backend systems for enterprise document and analytics platforms.</li><li>Leading backend development using Django and Flask, optimizing database performance, and ensuring efficient deployments.</li><li>Collaborating with cross-functional teams to enhance system scalability, reliability, and maintainability across environments.</li></ul>	
<b>Automaton AI Infosystem Pvt Ltd, Pune — Software Intern</b>	<i>Dec 2023 – Jul 2025</i>
<ul style="list-style-type: none"><li>Developed and deployed production-ready APIs and backend logic for document processing and analytics platforms.</li><li>Optimized Flask and MongoDB integrations, improving data query efficiency and API response times.</li><li>Collaborated on real-time dashboards and alerting systems, contributing to faster anomaly detection and operational insights.</li><li>Gained hands-on experience in containerization, debugging, and writing maintainable, modular Python code in an agile setup.</li></ul>	

## 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 Sumarization 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

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- **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