

SHASHWAT SHUKLA

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WORK EXPERIENCE

Orim Advisors

Mumbai, India

Python Developer Intern

September 2024 - February 2025

- Designed and deployed **scalable data ingestion pipelines** for 5,000+ enterprises, cutting processing latency by 98% through distributed microservices and containerized deployments.
- Built a real-time **financial document search** with **Qdrant + FastAPI**, delivering sub-3s query responses..
- Containerized applications with **Docker** and integrated **CI/CD** for streamlined deployment
- Engineered modular **API-driven** templates for financial summarization, reducing error rates by over 50%.

Surface Modification Technologies

Mumbai, India

Software Developer Intern

January 2024 - June 2024

- Developed a backend service for **computer vision-powered quality inspection**, improving wear detection accuracy by 30% and enabling automated measurement workflows
- Automated **data processing and analytics pipelines** using regression and curve fitting, reducing manual evaluation time by 80%.
- Implemented interactive **dashboards and data visualization layers**, improving reporting efficiency by 50%.

PROJECT EXPERIENCE

FinTracker – Enterprise-Grade Financial Portfolio Platform | [GitHub](#)

- Engineered a **microservices-based architecture** (Auth, Portfolio, News, API Gateway) with FastAPI, PostgreSQL, Redis, and Docker, enabling fault-tolerant and scalable financial analytics.
- Implemented **JWT authentication, rate limiting, and encryption**, ensuring enterprise-grade security and compliance.
- Built **real-time portfolio tracking** with live market data via WebSockets and external APIs (Alpha Vantage, News API).
- Deployed full stack (React + TypeScript frontend, FastAPI backend) with Docker Compose, reducing deployment overhead and ensuring smooth scaling across services.

PathWise - LangGraph based Multi-Agent System | [GitHub](#)

- Built a **modular backend system** to automate end-to-end pitch deck creation in under 3 minutes, integrating data ingestion, content generation, and export pipelines.
- Integrated **Qdrant-powered semantic memory** for context management, reducing content inconsistencies by 40% and improving information retrieval accuracy.
- Containerized the application with **Docker** for reproducible deployments and optimized performance.

TECHNICAL SKILLS

- Programming & Backend:** Python, Java, C++, JavaScript/TypeScript, Node.js, FastAPI, NestJS (familiar)
- Databases:** PostgreSQL, MySQL, MongoDB, Redis (caching & queues), SQLAlchemy, Alembic
- Distributed Systems & Search:** Microservices, REST APIs, GraphQL (familiar), Elasticsearch (familiar)
- Cloud & DevOps:** Docker, Docker Compose, CI/CD (GitHub Actions), AWS (Lambda, SQS, basic services), GCP
- System Design & Observability:** API Gateway design, structured logging, monitoring (Grafana/Prometheus-learning)
- AI/ML (Bonus Edge):** Retrieval-Augmented Generation (RAG), NLP systems, Deep Learning, LLM API's

EDUCATION

University of Mumbai

Expected Graduation 2026

B.Tech. Computer Science with Honors in AIML | GPA - 8.7/10

Achievements: *Top 3.5% globally on CodeWars, Received AICTE AURA Research Grant for AIML Project*

OpenSource: *Fixed Amadeus toolkit integration bug in LangChain community repo; submitted tested PR.*