

Rohit Vaishali Motdhare

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Experience

Guanlan Scholarship Foundation

Jul 2025 - May 2026

Full Stack AI Engineer

Fairfax, VA

- Engineered and deployed a secure Python and FastAPI application supporting scholarship review, record validation, and stakeholder reporting, replacing fragmented review steps with one authenticated workflow.
- Built an OpenAI-powered **RAG workflow across 50K+ scholarship records** from 2000-2024 using embeddings and vector search to deliver source-grounded context directly within reviewer workflows.
- Reduced **manual review effort by an estimated 30%** through retrieval-quality checks, completeness validation, anomaly detection, and human-in-the-loop review for low-confidence cases.

Larsen & Toubro Infotech Mindtree (LTIMindtree)

Jul 2021 - Feb 2023

Senior Software Engineer

Pune, India

- Architected reusable Python backend services and REST APIs on AWS for large-scale processing, **increasing throughput by 18%**.
- Productionized a PyTorch anomaly-detection service with automated testing, CI/CD, deployment, and monitoring, shortening the **training-to-release cycle by 6 hours**.
- Reduced **latency by 32%**, from 2.5 seconds to 1.7 seconds, through SQL profiling and API and cloud-service tracing.
- Partnered directly with enterprise client stakeholders to translate complex requirements into customized API integrations; managed end-to-end cloud deployments and operational handoffs, accelerating the **client onboarding lifecycle by 25%** while maintaining a **100% post-deployment success rate**.

Tata Consultancy Services

Feb 2021 - Jun 2021

Project Intern

Nagpur, India

- Orchestrated Azure Data Factory and SQL workflows for automated ingestion, transformation, validation, and reporting across end-to-end data pipelines, improving pipeline reliability and **increasing processing capacity by 20%**.

Skills

- Languages:** Python, SQL, R, TypeScript, C++, JavaScript
- AI & Machine Learning:** Agentic AI, LangGraph, Model Context Protocol (MCP), RAG, OpenAI API, Embeddings, Vector Search, Human-in-the-loop Systems, PyTorch, Model Serving, NLP, Anomaly Detection, scikit-learn, XGBoost
- Backend & Data:** Distributed Systems, REST APIs, API Integrations, FastAPI, PostgreSQL
- Cloud & DevOps:** AWS, Observability, Automated Testing, Production Debugging, CI/CD
- Data Platforms & Pipelines:** Snowflake, Databricks, Spark, PySpark, Kafka
- Certifications:** AWS Certified Data Engineer - Associate, Oracle Cloud Infrastructure 2025 Certified Data Science Professional

Projects

LocalJobAgent [GitHub](#)

Aug 2026

Python, Pydantic, SQLAlchemy, SQLite, Typer, HTTPX, BeautifulSoup

- Built an end-to-end local AI workflow covering ATS ingestion, normalization, deduplication, deterministic eligibility checks, local LLM ranking, application preparation, provenance, and tracking.
- Implemented human-in-the-loop Playwright browser automation for application filling with mandatory review before submission.

ExceptionOS [GitHub](#)

Aug 2026

Agentic AI, Testing, Human-in-the-loop Systems, TypeScript, Next.js, LangGraph, Webhooks

- Shipped a working web application with webhook integrations, automated tests, production deployment, deterministic demo behavior, and runtime smoke verification.

Distributed Metadata Store

Jan 2026

Distributed Systems, REST APIs, AWS, C++, DynamoDB, Lambda, CloudWatch

- Built a low-latency metadata service with CRUD REST APIs, versioning, optimistic concurrency control, retries, structured logging, monitoring, and unit tests.

EntitleGuard [GitHub](#)

Jul 2026

REST APIs, Next.js, TypeScript, Auth0, Stripe, PostgreSQL, Webhooks

- Built a production-style SaaS platform synchronizing Auth0 identity permissions with Stripe subscription state through Checkout, Customer Portal, webhooks, and PostgreSQL-backed authorization.

ProofPay [GitHub](#)

Jul 2026

Payment Workflows, Stablecoin Settlement, Vendor Payments, Approval Workflows, Reconciliation

- Designed vendor approval, reconciliation, transparent payout tracking, and stablecoin settlement workflows for enterprise payments.

Education

George Mason University

May 2025

M.S., Data Analytics Engineering

- GPA:** 3.77/4.00