

# ASHUTOSH RUDRAKSH

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## SUMMARY

Experienced in building **scalable AI systems, backend microservices, and data-driven products**, delivering measurable impact:

- **Saved \$250K annually** by building an AI document processing system that automated **100+ staff hours/week**.
- **Generated \$120K** in revenue, designed APIs and microservices on AWS handling **2M+** transactions/month with **99.99%** uptime.
- **Boosted user adoption by 30%** by building a RAG pipeline and **personalized, time-specific navigation experience**.

## PROFESSIONAL EXPERIENCE

**Tekainos (Startup)** - Software Engineer

**Remote, USA**

*Python, FastAPI, AWS (Lambda, API Gateway, S3, RDS), Redis, Salesforce CRM, MCP*

*Aug 2024 – Present*

- Designing and implementing scalable **ETL AI pipelines**, integrating Salesforce CRM, accounting, and scheduling systems via AWS/GCP Lambda & Cloud Functions, enabling **real-time customer data sync** to reduce manual data entry.
- Building **MCP (Model Context Protocol) server layer** in FastAPI to standardize schema inference, field mapping & connector generation across heterogeneous systems, **cut onboarding time** for new integrations from **6 weeks to 2 days**.

**Wexner Medical Center** – Software Engineer

**Ohio, USA**

*Spring Boot, JavaScript, React, TypeScript, FastAPI, Python, MongoDB, GitHub Actions, Docker*

*May 2024 – Aug 2024*

- Automated triage pipeline by cutting human review queue by **60%**, **saving 100+ staff hours per week and ~\$250K annually**, with CI/CD deployment via GitHub Actions and Docker.
- Prompt Engineered LLaMA on **5K+** clinical documents, **boosting classification accuracy by 30%**, enabling scalable backend APIs for clinical workflows with **automated test coverage (unit/integration)** to ensure reliability across environments.
- Designed and integrated **React/TypeScript dashboards** with backend REST APIs, delivering real-time clinical data visualization, improving decision-making efficiency for physicians.

**Ohio State University** – Research Assistant

**Ohio, USA**

*Python, Spring Boot, JavaScript, Neo4j, GPT-4, LangChain, FastAPI, MongoDB, Airflow*

*Jan 2024 – Apr 2024*

- Built a knowledge-graph-driven RAG system with Neo4j, LangChain, and GPT-4, **boosting retrieval accuracy by 30%** and **cutting response latency by 25%** for complex HPC queries.
- Engineered Airflow-orchestrated ETL pipelines for supercomputer log analysis, **reducing administrators' manual log analysis workload by 40%**, & built **context-aware conversational AI interface**, enabling multi-turn natural language queries.

**CloudLead Technologies** – Software Engineer

**Pune, India**

*Java, Spring Boot, Python, Redis, SQL, AWS (EC2, RDS, S3, Lambda), Docker, Kubernetes, Apache Kafka*

*Jan 2022 – Jun 2023*

- Built Spring Boot validation **microservice** with Redis velocity checks, **blocking fraud in real time & ensuring 99.99% uptime** on **2M+** monthly transactions.
- Designed AWS data pipeline (EC2, RDS, S3) to process **5M+** transactions into **25+ features**, **boosting credit-risk model accuracy** for safer loan approvals.
- **Collaborated** with data science and product teams to engineer top predictive features (sales\_trend, customer\_return\_rate), improving loan approvals and **generating \$120K in new revenue**.

## PROJECTS & HACKATHONS

**NAVAI – HACK OH/IO - YOLOv8, Flutter, gTTS, LLaMA-3, OpenCV, Grok API** (Accessibility Hack Award)

[Link](#)

Built vision-to-voice navigation tool for the visually impaired, delivering real-time audio guidance and cutting **~\$15K** in hardware costs with a software-only solution.

**TRAVEL COPILOT - UC BERKELEY AI HACKATHON - OpenAI GPT-4, React (Next.js), AWS (Lambda, DynamoDB)**

Developed AI travel copilot using GPT-4 + APIs to generate personalized itineraries from real-time flight, hotel, and weather data.

**TRADING & MARKET DATA MCP SERVER – MCP, FastAPI, WebSockets, Redis, Alpha Vantage API, Docker**

Vibe-coded MCP server for equities/crypto streaming, handling **10K+** updates/min with order simulation and portfolio analytics.

## EDUCATION

**The Ohio State University** - The Honor Society of Phi Kappa Phi

**Columbus, Ohio**

*M.S. Computer Science & Engineering, 3.8/4 GPA – Focus: Machine Learning, AI Systems*

*Graduated May 2025*

## SKILLS

**Languages:** Python, Java, JavaScript (ES5/ES6+), TypeScript

**Web Frameworks:** Spring Boot, PyTorch, FastAPI, Django, Node.js (Express), React (Next.js), Flutter

**Cloud & DevOps:** AWS (SageMaker, Lambda, Bedrock, Elasticsearch), GCP, Docker, Kubernetes

**Databases:** SQL, MongoDB, Kafka, ChromaDB, Redis, Hadoop, Spark, Neo4j

**AI/LLM Tools:** Cursor IDE, OpenRouter, OpenAI, Figma, Hugging Face, LangChain, MCP, n8n

**Other Skills:** System Design, Design Patterns, Algorithm Design, Prompt Engineering, Context Engineering, Vibe-Coding, OOP, Distributed Computing, Cloud Infrastructure, CI/CD, Distributed Systems, SDLC