

# ASHUTOSH RUDRAKSH

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## PROFESSIONAL EXPERIENCE

### Software Engineer – Tekainos (Startup) [Aug 2025–Present]

Remote, USA

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

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

### Co-Founder & Product/AI Engineer – NAVA I (Stealth Startup) [Oct 2024–May 2025] [Demo](#)

Remote, USA

- Co-founded NAVA I, building a **real-time vision-to-voice navigation system** using YOLOv8, LLaMA-3, and Flutter, **eliminating \$15K+ hardware costs** for visually impaired users through a software-only solution.
- Spearheaded **end-to-end development**, from **computer vision pipeline to mobile deployment**, earned “**Best Accessibility Hack**” at Hack OH/IO & led product strategy & user testing.

**Skills:** Computer Vision, LLMs, YOLOv8, LLaMA-3, Flutter, FastAPI, OpenCV, Product Strategy

### Software Engineer – Wexner Medical Center [May 2024–Aug 2024]

Ohio, USA

- 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 & Docker on **Linux environments**, ensuring **cross-platform compatibility**.
- 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 & integrated React/Redux/TypeScript **dashboards with backend REST APIs**, delivering real-time clinical data visualization, **improving decision-making efficiency for physicians**.

**Skills:** Spring Boot, JavaScript, React, Redux, TypeScript, FastAPI, MongoDB, GitHub Actions, Docker

### Research Assistant – The Ohio State University [Jan 2024–Apr 2024]

Ohio, USA

- Constructed a knowledge-graph-driven RAG system with Neo4j, LangChain, and GPT-4, **enhanced retrieval accuracy by 30% & slashed response latency by 25%** for complex HPC queries.
- Engineered **Airflow-orchestrated ETL pipelines** for supercomputer **log analysis on Linux clusters** with **Bash automation** (log collection & preprocessing), **reducing administrators’ manual log analysis workload by 40%**, & built context-aware **conversational AI user interface (UI/UX)**, enabling multi-turn natural language queries.

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

### Software Engineer (Co-op) – CloudLead Technologies [May 2022–Jan 2023]

Remote

- **Prevented fraud on 2M+ monthly transactions** by building a **Spring Boot microservice** with Redis checks, **maintaining 99.99% uptime**.
- Boosted credit-risk model accuracy by designing **AWS data pipelines** (EC2, RDS, S3), **collaborated with cross-functional teams**, designed **25+ predictive features** for ML models that **increased revenue by \$120K**.

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

## PROJECTS & HACKATHONS

### TRAVEL COPILOT – UC BERKELEY AI HACKATHON - Claude-Code, Replit, TypeScript, Next.js, AWS (Lambda)

[Link](#)

- Generated real-time, personalized travel itineraries by integrating flight, hotel, weather APIs using OpenAI & Claude.
- Delivered instant plans via a Lambda-powered backend and Next.js UI, optimizing user flow and planning accuracy.

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

[Link](#)

- Handled **10K+ market updates/min**, MCP server with real-time WebSocket streams and order simulations.
- Reduced latency & improved data integrity by enforcing schema via MCP & deploying Dockerized services for scalability.

## EDUCATION

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

Columbus, Ohio

M.S. Computer Science & Engineering, GPA: (3.8/4.0) – Specialization in LLMs & AI Systems

Graduated May 2025

Coursework: Computer Vision, Advanced Artificial Intelligence, Advanced Operating Systems, Advanced Algorithms

## SKILLS

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

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

**Cloud & DevOps:** AWS (SageMaker, Lambda, Bedrock, API Gateway), GCP, Docker, Kubernetes, Terraform, Airflow, Spark

**Databases:** MongoDB, Redis, SQL, Neo4j, ChromaDB, DynamoDB

**AI/LLM Tools:** LangChain, OpenAI, Hugging Face, LLaMA, GPT-4, n8n, MCP, Prompt Engineering, RAG systems, Figma

**Other Skills:** Cloud Infrastructure, design patterns, System Design, Distributed Computing, CI/CD, Microservices Architecture, Context Engineering, Object Oriented Programming, Agile, cloud technologies, Data Modeling, software development life cycle.