

Faran Zafar

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WORK EXPERIENCE

RealityMine

Manchester, UK

Software Engineer

December 2024 – Present

- Built agentic server automation, cutting MTTR from ~60 min to minutes (estimated ~£500k in manual hours)
- Automated client configuration via internal agentic tooling, saving ~350+ hours/year by standardizing repeatable setups.
- Optimized a ~600GB/day data pipeline, improving throughput by ~86%
- Reduced legacy system alarms/crashes by ~95% through reliability improvements.

Google DeepMind

Birmingham, UK

Research Intern

July 2024 – Aug 2024

- Collaborated with a team to develop the Adaptive Memory RAG (AMRAG) framework, integrating self-checks and web search, leading to an 88% improvement in response accuracy.
- Applied advanced techniques such as decomposition, QA context generation, hallucination detection, and retrieval augmentation.
- Achieved sub-5-second response times, significantly enhancing performance over standard RAG models.

Aston University

Birmingham, UK

Teaching Assistant for College of Engineering and Physical Sciences

Oct 2023 – July 2024

- Mentored 10+ student teams of 6 members in OOP, emphasizing best practices.
- Led 8+ hands-on workshops on advanced OOP topics with students ranging from 30 to 50 in each workshop.

EDUCATION

Aston University

Birmingham, UK

BSc in Computer Science

Sept 2021 – Sept 2024

- Obtained Grade: First Class Honours (4.0 GPA)

SKILLS & CERTIFICATIONS

GenAI: AWS Bedrock, LangChain/LangGraph, LlamaIndex, tool calling, structured outputs, prompt-injection mitigation, RAG, Pinecone, pgvector

Stack: FastAPI/Django/Flask, Spring Boot; React, Next.js

Infra/Data: AWS, Docker, Linux, CI/CD; PostgreSQL/MySQL/MongoDB; Firebase, Redis, RabbitMQ,

Langs/Cert: Python, Java, JS, C#, PHP, C++; Google Cybersecurity Certificate, AWS SA(In Progress)

PROJECTS (More Projects Available at faranz.com)

Katsu

- LLM-powered agentic server management that cut MTTR from 1–2 hours to minutes.
- Multi-agent design with verification, prompt-injection defense, automated remediation, and SSH session pooling and lot of other cool stuff.

Nova

- Multi-agent automation platform for accounting firms: document processing, data extraction, and compliance checks.
- Includes VAT validation, duplicate detection, tool-calling assistant, and an end-to-end audit trail with entity tracking.