

Abeer Makin

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EDUCATION

University of Waterloo

Honors in Computer Science

Waterloo, Ontario

Sept 2024 – Apr 2028

Courses: Object Oriented Design, Linux Development, Data Structures and Algorithms, Calculus

EXPERIENCE

Software Engineer Intern

Reading, UK

Wipro Limited

May 2025 – Aug 2025

- Engineered a fault-tolerant **onboarding assistant** on **AWS EC2** using **Python and Docker**, establishing **CI/CD** pipelines and automating workflows for 1000+ new hires, cutting onboarding time from **7 to 4 days**.
- Built an AI pipeline to process 500+ equipment maintenance documents (unstructured data), leveraging **RAG** to enable **natural language** queries, reducing maintenance resolution time by **40%**.
- Developed an **LLM-powered** HR policy chatbot using **vector databases and embeddings**, integrated with **Java enterprise** systems to enable semantic search and reduce manual support tickets by **60%**.

Software Engineer Intern (Work Experience Program)

Newbury, UK

West Berkshire Council

June 2023 – June 2023

- Optimized complex **SQL queries** using **MS SQL Server** and conducted **data cleansing** across relational databases, reducing query latency by **20%** and improving reporting accuracy to **85%**.
- Automated repetitive administrative workflows using **Microsoft Power Automate** and dynamic **XML** and **JavaScript** document templates, streamlining form generation and reducing manual processing effort by **40%**.

Engineering Intern (Work Experience Program)

London, UK

Siemens Engineering

May 2023 – May 2023

- Improved control system performance by developing **unit tests** and automated verification suites in Python + Cypress within an **Agile** environment, improving feedback loops by **15%** and accelerating test cycle efficiency.
- Built a real-time dashboard (**Streamlit**) for **digital twin** simulations using sensor data, validated via **MATLAB** simulations, reducing manual performance monitoring from **12 to 2 hours** per week.

PROJECTS

FinSight - AI Finance Agent

September 2025

Python, LangGraph, FastAPI, React.js, Plaid API, Supabase, Groq

- Architected a distributed microservice-based multi-agent platform integrating RESTful **Plaid API** to process live banking transactions for **100+** users, utilizing **Supabase** for secure data persistence to forecast spending.
- Engineered an autonomous **Negotiator Agent** using **LangGraph**, utilizing **multithreading** to parallelize subscriptions, research cheaper alternatives, and draft negotiation emails.
- Deployed a predictive dashboard (**React + Redux**) using **Prophet** to forecast cash flow anomalies, reducing user overspending risk by providing proactive financial alerts.

RiskPulse - Credit Risk Modeling Engine

October 2025

TypeScript, Next.js, Python, XGBoost, Pandas, Flask, PostgreSQL, Tailwind CSS, Tesseract OCR

- Built a loan default prediction system with **XGBoost**, analyzing **150K+** financial records, achieving **78% ROC AUC** to enable **ML-driven** identification of high-risk loans and proactive **credit risk mitigation**.
- Developed a full stack platform with **Next.js** frontend and **Python Flask** backend REST API providing real-time risk scoring, risk simulations, and interactive dashboards to leverage better lending decisions.
- Engineered **feature analysis** and data pipelines with **13 credit risk** factors, enabling OCR document processing to generate actionable **portfolio insights**.

SKILLS

Languages: C#, Java, Python, JavaScript, TypeScript, SQL, C++, HTML, CSS

Tools: Git, Docker, VS Code, Kubernetes, PostgreSQL, AWS, Azure, Supabase, Vercel, Linux

Frameworks: React, Django, FastAPI, Flask (MVC), Next.js, Pandas, PyTorch, LangChain, Scikit-learn, XGBoost

EXTRACURRICULARS

Hack the North: Volunteer Organiser (Canada's largest hackathon), **Delta Hacks 12** Winner

Content Creator: Managed an Instagram account with **300K+ monthly views** - @abeer.daily1