

# Abeer Makin

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## EDUCATION

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### University of Waterloo

Honors in Computer Science

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

Waterloo, Ontario

Sept 2024 – Apr 2028

## EXPERIENCE

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### Software Engineer Intern

Wipro Limited

Reading, UK

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)

West Berkshire Council

Newbury, UK

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)

Siemens Engineering

London, UK

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

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### [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

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**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

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**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