

Abeer Makin

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EDUCATION

BSc in Honours Computer Science

University of Waterloo

September 2024 - Present

Waterloo, ON

EXPERIENCE

Software Engineer Intern

May 2026 - August 2026

Shopify

- Diagnosed an infinite poll loop in Shopify Flow's order cancellation primitive, redesigning state machine rules with a **3-hour backoff retry**, failure context clearing, and active Rails.event telemetry logging.
- Engineered Flow's **Next-Gen Events Kafka ingestion** across 6 environments: built a consumer binary, HMAC sparse-payload parser, dynamic GraphQL hydrator (TriggerUsageAnalyzer), and subscription persistence.
- Built an **automated loop-detection platform (~2.8K LOC)** using BigQuery, Sidekiq background workers, MySQL state diffing, and Slack digests, eliminating manual 7-day database query triage.

AI Consulting Intern

February 2026 - April 2026

EY (Ernst & Young)

- Architected a **4-agent LangGraph generation engine** with Orchestrator loops and evaluation gates, synthesizing test stubs with complex inter-column dependencies and anomaly injections for M&A data.
- Built a unified micro-frontend wrapping separate agent UIs on Azure Web Apps into a single interface, routing requests via a **BFF layer**, Azure APIM gateway, and Microsoft Entra ID SSO.
- Implemented an agent observability platform using SQL models and Power BI to ingest BFF execution telemetry, rendering **per-user token costs** to drive gamified tool usage across teams.

Software Engineer Intern

May 2025 - August 2025

Wipro Limited

- **Cut onboarding duration from 7 to 4 days** by deploying an automated AI assistant on AWS EC2 using Python and Docker containerization for 1,000+ new hires.
- **Reduced ticket resolution time by 40%** by building a RAG search engine across 500+ maintenance manuals to support natural language queries.
- **Reduced support volume by 60%** by engineering an LLM HR chatbot integrated with vector databases and Java enterprise backends for semantic search.

PROJECTS

OffsetAI - Multi-Agent Financial Platform 🔗 | Next.js, FastAPI, LangGraph, Pinecone, Python

- Built an autonomous investment assistant synthesizing market feeds and private portfolios into actionable trading signals using Next.js, FastAPI, and **LangGraph**.
- Designed a **self-correcting multi-agent network** validating real-time market trends against live betting market odds.
- Engineered a privacy-first RAG pipeline using Pinecone and **Model Context Protocol (MCP)** to securely analyze local user data.

BuildBane - Peer-to-Peer Project Marketplace 🔗 | Next.js, GraphQL, PostgreSQL, TypeScript, Redis

- Architected BuildBuddies (P2P task SaaS) using Next.js 15, React 19, and Apollo Server 5 across **20 GraphQL domains** with a 25-model PostgreSQL DB.
- Engineered a real-time messaging engine combining **Redis graphql-ws subscriptions** for alerts with Firestore chat, unified under Clerk JWT authentication.
- Designed an 11-domain feature-sliced frontend with GraphQL Codegen, Express 5, **Redis sliding-window rate limiting**, and strict TypeScript CI checks.

RELEVANT SKILLS

Languages, Frameworks & Libraries: TypeScript, JavaScript, Python, SQL, React, Next.js, GraphQL, FastAPI, LangChain, PyTorch, Scikit-learn

Cloud & Infrastructure: AWS EC2, GCP, Docker, Azure, Redis, Kafka

Databases: PostgreSQL, MS SQL Server, Pinecone, MySQL

EXTRA CURRICULARS AND ACHIEVEMENTS

- Hack the North - Volunteer Organiser.
- Delta Hacks 12 - Winner.