

# Mahbub Shafin

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## EDUCATION

### York University

Bachelor of Science (Honours) in Computer Science

Toronto, Ontario

Expected Aug 2025

**Relevant Coursework:** Data Structures and Algorithms, Computer Hardware, Cyber Security, Object-Oriented Programming, Embedded Systems, Database Management, AI and Logic Programming

## EXPERIENCE

### Masjid Sirat Al Mustaqim

Mobile Developer - Volunteer

Brampton, Ontario

Jun 2025 – Present

- Contributed to raising **\$3M** for a new mosque by developing a **modular Flutter app** offering Quran, Hadith, Dua, prayer times, and more Islamic features.
- Enabled **GPT-4**-powered Islamic Q&A by building an **AI chatbot** with **RAG**, combining Firestore data and OpenAI via a custom **FastAPI/Node.js** backend.
- Boosted **search relevance** by integrating **Pinecone vector search** with **OpenAI Embeddings** for **semantic document retrieval** from **Firestore**.
- Automated **ingestion of Quran and Hadith texts** by writing **JavaScript scripts** to structure and import content into **Firestore**.
- Enhanced **spiritual engagement** through services for **location-aware prayer times**, **Hijri date conversion**, and **dynamic Quran audio streaming**.
- Applied **clean architecture** for scalable, decoupled **controllers, services, and UI**.

### Bey Bazaar — <https://beybazaar.com>

Founder | Full-Stack Developer

Remote

Feb 2025 – Present

- Developed a full-stack e-commerce web application using **Next.js**, **TypeScript**, **Supabase**, and **Tailwind CSS**, with full SSR and static optimization for enhanced performance.
- Implemented **SEO best practices** (structured metadata, semantic HTML, sitemap generation) to increase discoverability and organic traffic.
- Integrated authentication, product catalog, shopping cart, and order fulfillment systems with real-time database operations via **Supabase**.
- Optimized web performance** using image lazy loading, code splitting, and server-side rendering; deployed and maintained the application on **Vercel** with CI/CD pipelines and environment variable management for seamless updates.
- Managed full business ops—product selection, branding, content creation, fulfillment, and logistics—scaling to **~200K views** and **\$200+** in sales in 1 month.

## TECHNICAL PROJECTS

### MapFlow — <https://mapflow.com>

Python | HTML | CSS | JavaScript | Flask

Toronto, Ontario

Jan 2025 – Feb 2025

- Built a pathfinding web app supporting Dijkstra, A\*, BFS, DFS, and bidirectional search; designed stateless per-request graph loading for serverless, added gzip via Flask-Compress, and returned path + visit order for client-side animations.
- Optimized UX and performance for large city graphs: path-only API responses, offscreen-canvas base rendering, cached node positions/unique edges, rAF-throttled hover, and fast glow effects.

### YeezyDB — <https://yeezydb.com>

Python | PostgreSQL | HTML | CSS | JavaScript | Flask

Toronto, Ontario

Apr 2024 – May 2024

- Built a clean, responsive web app using **Flask** and **vanilla HTML/CSS/JS** to display a catalog of Kanye West's Yeezy sneakers from a **PostgreSQL** database.
- Developed a **Python web scraper** to automatically extract sneaker data from public websites and populate the database with up-to-date product information.

## SKILLS

**Programming Languages:** Dart, Java, Python, JavaScript, TypeScript, C, HTML/CSS, SQL, Assembly, VHDL

**Frameworks & Libraries:** Flutter, React.js, Next.js, Flask, Spring Boot

**Tools & Environments:** Git, Docker, Android Studio, Firebase, Firestore, IntelliJ, PyCharm, Eclipse, VS Code

**Operating Systems:** Windows, Linux