

# Toheeb Eji

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## EDUCATION

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**McMaster University** | Hamilton, ON  
*B.S. in Computer Science - 3.78 GPA*

**Sep. 2025 - Present**

## TECHNICAL SKILLS

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**Languages:** C#, JavaScript, Typescript, HTML/CSS, Python, Go

**Frameworks & Libraries:** Node.js, React.js, Svelte, ASP.NET Core, TailwindCSS, FastAPI

**Developer Tools:** Git, GitHub, Google Cloud Platform, PostgreSQL, Docker

## PROJECTS

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**Serene** | *React, Next.js, Typescript, TailwindCSS, C#, ASP.NET Core*

**Jul. 2025 - Present**

- Developing a full-stack mental health platform using React/Next.js (TypeScript) and ASP.NET Core (C#) with a PostgreSQL database.
- Engineered a semantic search recommendation engine using a vector database and OpenAI embeddings, implementing a custom RAG pipeline to surface relevant resources based on user demographics and struggle vectors.
- Integrated Google Gemini AI to generate context-aware prompts, utilizing Quartz.NET for reliable background job scheduling and content delivery.

**Waypoint** | *React, Mapbox GL JS, TailwindCSS, Tanstack Query, FastAPI*

**Jan. 2026**

- Architected FastAPI backend with async request handling, Monte Carlo simulation engine (1000+ agents), and integrated NASA SRTM elevation data, weather APIs, and OpenStreetMap features for terrain-aware movement
- Built real-time interactive map visualization using Mapbox GL JS, React, and TanStack Query to render predictive heatmaps and 12-hour forecasts with 500+ concurrent agent simulations.
- Deployed the server with Docker and Google Cloud Run for auto-scaling and production reliability.

**Studyflow** | *React Native, Expo, Python, FastAPI, Groq AI*

**Oct. 2025**

- Developed a full-stack mobile app using React Native and FastAPI that transforms social media scrolling into productive study breaks through AI-generated flashcards and active recall questions.
- Built a PDF processing pipeline with FastAPI and Groq's Llama 3.1 model to automatically generate personalized study questions from uploaded course materials.

## HACKATHONS

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**DeltaHacks** | *Hamilton, ON*

**Jan. 2026**

- Developed Waypoint - a search and rescue mission planning tool (see Projects)

**RythmHacks** | *Waterloo, ON*

**Oct. 2025**

- Winner of the Best Venture Track Award
- Developed StudyFlow - a mobile app for productive study breaks (see Projects)