

Arian Emamjomeh

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EDUCATION

University of Waterloo

Bachelor's of Computer Science

Expected Apr 2030

Waterloo, ON

- **Awards:** President's Scholarship of Distinction, Paul M. Koch Entrance Scholarship

EXPERIENCE

Harvard Medical School Research Study

September 2024 – Present

Research Lead

- Conducted a research study on the effects of social media on adolescent behaviour and sleep quality under the guidance of Amirreza Haghghi, lecturer of medicine at **Harvard Medical School**
- Surveyed **150+ students** from Iran and Canada to collect and analyze data to construct a reputable research paper

Prohome Consulting Inc.

July 2024 – Aug. 2025

Architectural Firm Assistant

- Assisted and managed the construction and renovation of **20+** houses
- Conducted administrative tasks, including file management, data entry, and appointment scheduling
- Maintained residential properties, performed site clean-up, and assisted with repairs and renovations

Tutoring Club President

May 2023 – June 2025

- Organized weekly tutoring sessions and helped grow the club from **100 to 500+** tutors and tutees.
- Created an algorithm to pair tutees and tutors, helping **50% more** students find a tutee throughout the year

School Council Treasurer

June 2023 – June 2025

- Created and tracked a budgeting plan of **\$45,000** using Excel to be used throughout the school year
- Led a team of student council members to plan and execute school-wide initiatives for **1200+ students**

PROJECTS

Medical Simulation Platform | NextJS, TypeScript, FastAPI, Gemini API, Supabase, SQLite

- Developed a medical education platform using NextJS, enabling patient simulation and diagnostic assessment.
- Built a preload utility to ingest and pull from 150+ patients randomly using SQLite
- Engineered a FastAPI backend with endpoints for data operations and user authentication using Supabase.
- Used Gemini API to simulate patients, process chat context/final diagnoses to compute scores, and deliver feedback

WatsApp (Course Community App) – Expo React Native, Supabase, TypeScript

- Built a mobile-first study hub where Waterloo students join course chats, share attachments, and manage study groups via Supabase realtime messaging and storage.
- Designed polished UX, profile customization, Instagram links, threaded replies—to mirror modern chat apps.
- Implemented secure auth and data flows with Supabase (profiles, RLS policies, edge triggers), and wired Expo push-ready architecture for future mobile notifications.

FitTrack [Workout Tracker Web App] | Flask, SQLite, CSS, HTML, JavaScript, WGER API

- Developed a full-stack fitness tracker that allows users to search exercises via the **WGER API**, add custom sets (reps/weight), and track progress interactively
- Engineered a dynamic frontend with **JavaScript** and **HTML/CSS** to group exercises, expand/collapse sets, remove them, and mark them as complete
- Implemented a **Flask** backend with a **SQLite** database to store user workouts, sets, and real-time input data

EXTRACURRICULARS

DECA Provincials Competitor

- Competed in Business Finance and Entrepreneurship events at the regional and provincial levels

HOSA Spring Leadership Conference Competitor

- Competed provincially in a medical exam in the behavioral health category

SKILLS AND CERTIFICATES

- **Software:** React, HTML/CSS, TypeScript, Expo Go, Python, JavaScript, Racket, SupaBase, Microsoft Office
- **Languages:** English, French, Farsi
- Certificate of Bilingual Studies (French Immersion)