

# Soroush Khajepour

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## TECHNICAL SKILLS

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**Languages:** C++, C, Python, JavaScript, HTML5/CSS (TailwindCSS)

**Developer Tools:** Git/GitHub, Arduino, Microsoft Office

**Technologies/Frameworks:** React.js, ShadCN, Firebase, OpenAI REST API

## EXPERIENCE

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### Midnight Sun Design Team

Sep 2025 - Current

Firmware Designer

Waterloo, ON

- Developed embedded **C firmware** for **STM32 microcontrollers**, including **GPIO** control, **ADC** drivers, and **FreeRTOS**-based task scheduling as part of the onboarding process
- Collaborating with several electrical engineers to debug controller boards and write validation/debugging tools in **C** and **Python** to ensure reliable firmware performance

### Rocketry Association

Mar 2024 - June 2025

Vice President

Brampton, ON

- Directed **software and circuitry development for rockets**, including **Arduino-based flight systems** and launch mechanisms as the **Vice President** of Turner Fenton's **Rocketry Club**
- Designed and **prototyped electrical systems (IMUs, transistors, logic gates, reed switch-activated launch, servo motor control, PCB soldering, PWM)** for safe and reliable launches
- Organized workshops and training to teach **50+** members **Arduino, circuitry**, and rocketry fundamentals, fostering STEM engagement and technical growth

### DECA

Dec 2022 - April 2023

Member

Toronto, ON

- Competed in business case competitions, developing solutions under time constraints and presenting to judges
- Advanced to **regional finalist** and **provincial competitor** in the **Accounting (ACT)** cluster
- Strengthened **leadership, communication**, and presentation skills through **team collaboration** and **public speaking**

## PROJECTS

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### Thinkrr AI

Aug 2025

- Developed an **AI-powered flashcard generator** using **React.js, TailwindCSS, ShadCN**, and **REST API**
- Implemented **Firestore OAuth** to enable user authentication and secure data storage
- Integrated **Google Firestore** to allow users to save up to **5 AI-generated** flashcard decks

### Battlefit (TerraHacks 2025 Hackathon)

Aug 2025

- Programmed and pitched a **fitness-based web game** for the TerraHacks Hackathon using **Javascript, CSS**, and **HTML**
- Trained a **Google Teachable Machine** learning model to detect exercises and poses via webcam with **85%** accuracy, and mapped them to in-game actions

### Waterloo ECE 2025 Class Profile Website

July 2025

- Co-developed and deployed a class profile website for the University of Waterloo ECE 2025 cohort using **Next.js (React.js), TailwindCSS**, and **ShadCN** in order to strengthen community and networking
- Showcased and categorized profiles of **100+** first-year students across **2** streams, **3** cohorts, and **2** programs

## EDUCATION

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### UNIVERSITY OF WATERLOO

Waterloo, ON

Bachelor of Applied Science in Computer Engineering

Sep 2025 - April 2030

Relevant Coursework: Intro to Programming (C++), Linear Algebra, Calculus 1