

SKILLS

Languages

Java, JavaScript, TypeScript, Python, SQL, C, C++, HTML5, CSS

Frameworks & Development Tools

React, Angular, Flutter, Node.js, Spring, Django, Express.js, Redis, MongoDB, MySQL, Firebase, OpenShift, Docker

EDUCATION

University of Waterloo

Computer Engineering, Honours | GPA: 4.0

Term Dean's Honours achieved every term

Waterloo, Ontario

Class of 2026

WORK EXPERIENCE



Capital One

Full Stack Software Developer Co-op

Toronto, Ontario

January 2025 - April 2025



RBC

Software Developer Co-op

Toronto, Ontario

January 2024 - April 2024

- Engineered and released a new secure client onboarding experience for RBC's tokenization manager, reducing onboarding time by 98%, leading backend architectural API decisions, and building intuitive UX with **Spring** and **Angular**.
- Convinced team leadership about the security and usability advantages of custom Passkeys integration over externally sourced alternatives through development of a mobile app prototype with **Flutter**.
- Saved company-wide developer time by designing an **Angular** project template that enhanced maintainability and streamlined deployment processes.



Untether AI

Systems Software Developer Co-op

Toronto, Ontario

September 2022 - December 2022

- Rapidly learned firmware development and CLI command design to independently implement multi-bank read/write operations and packet initialization features, creating a linker script and makefile to generate ELF files, ensuring seamless testing and hardware compatibility.
- Solved complex hardware-software integration challenges to develop robust chip socket connection, socket configuration, receive interrupt handling, and data transmission.



Onsemi

Software Tools Developer Co-op

Waterloo, Ontario

January 2022 - April 2022

- Enhanced user experience with improved hearing aid performance by maintaining Bluetooth Low Energy power at 8 dBm for better signal stability and battery life, while fixing watchdog refresh issues to ensure reliable operation.
- Optimized the development workflow by designing a headless build process with **Python**, integrating the Keil IDE to streamline project building, debugging, and flash downloads.

PROJECTS

Rendezvous Radar

Django, Torch, Pandas, Python, React, TypeScript

- Designed and delivered a full-stack application enabling users to find points of interest through activity categories or natural language prompts, leveraging machine learning for relevant results.
- Learned and applied fine-tuning techniques for the DistilGPT2 large language model using **Python** and **Torch** to classify user input into points of interest, optimizing hyperparameters to achieve accurate and reliable results for diverse queries.
- Developed and optimized a robust backend using **Django** to process geolocation data via Nominatim, handle API calls, and retrieve points of interest from OpenStreetMap, integrating **Pandas** for efficient data processing and querying.

FakeBook App

NodeJS, ExpressJS, MongoDB, TypeScript, ReactJS, HTML, CSS

- Independently built a social networking app which enabled users to connect, personalize profiles, share updates, interact with posts, receive friend suggestions, and third-party Facebook login, focusing on user engagement and experience.
- Designed a RESTful backend with **Node** and **Express** to store and manage data in **MongoDB**, ensuring maintainability and scalability.
- Integrated secure authentication features including password encryption, authentication, and token-based login.