

Charlie Wong

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Education

University of Waterloo

2021 – 2026

BASc, Computer Engineering (Honours with Distinction)

Technical Skills

Languages: Typescript, JavaScript, HTML/CSS/SCSS, C#, C/C++, Java, Python

Frameworks: React, jQuery, Velocity, .NET, Qt, MUI, Bootstrap, Foundation

Design/Tools/Libraries: Git, Adobe Creative Cloud, Azure DevOps, Jira, Microsoft Dynamics

Experience / Projects

Fourth-year Capstone Design

May 2025 – Apr. 2026

University of Waterloo | TypeScript, React Native, C++, Python

Waterloo, ON

- Led firmware development of an IoT health wearable, interfacing an ESP32 with various sensors on a custom PCB to generate real-time health metrics and scores sent over MQTT to PostgreSQL database
- Designed a responsive mobile companion app with a dashboard displaying health trends and visualizations alongside actionable user insights fetched from a Python ML server

Full Stack Developer

Sept. 2025 – Dec. 2025

Virtek Vision | TypeScript, React, MUI, C#, .NET, Swagger

Waterloo, ON

- Refactored and migrated the web application component of the flagship Iris product from a legacy mobile platform, improving usability and interactivity for enterprise clients
- Integrated the Iris Web app with a re-architected projection system, transitioning from microservices to a centralized orchestrator architecture
- Designed and implemented a hierarchical tree-view UI and underlying logic, enhancing navigation and feature discoverability

Software Developer

Jan. 2025 – Apr. 2025

Geotab | TypeScript, React, C#, .NET

Oakville, ON

- Developed and maintained key features within MyGeotab platform leveraging React/.NET stack, supporting userbase of 4.7M+ vehicle subscriptions
- Optimized fleet filtering functionality, enabling users to perform complex queries for assets
- Implemented a platformwide refactor of React headers and toolbar components to improve consistency and maintainability
- Refactored password validation logic to enhance account creation reliability

Full Stack Developer

Oct. 2024 – Feb. 2025

Develop For Good – Holland Bloorview Institute | JavaScript, React, Next.js, Firebase

Toronto, ON

- Built a web platform enabling clinicians to assess prosthetic effectiveness using patient questionnaires
- Implemented secure clinician and patient authentication, role-based access, and account management
- Integrated Stripe payments into the organization onboarding and registration workflow

Web Developer

Jan. 2024 – Apr. 2024

AGF | JavaScript, React, JQuery, Java, HTML/SCSS

Toronto, ON

- Developed and maintained production website components leveraging React/Java/Velocity stack serving 800,000+ clients
- Implemented user homepage login functionality
- Designed responsive, interactive data tables using React to display client information
- Implemented site-wide cookie management and tracking integrations using Salesforce Pardot and Google Tag Manager