
Experience

Meta

Mar. 2022 – Aug. 2025

Software Engineer

Bellevue, WA

- Added permissions layer and employee tier security policies to OnDemand environments, unlocking access for contracted workers previously blocked by corporate restrictions
- Fixed longstanding Marketplace defect that left over 10 million seller reviews hidden from buyers, including some buried for four years, after uncovering the issue through independent data analysis and retroactively publishing the reviews
- Built Marketplace messaging automation tool with a React UI that provisions buyers and sellers, lists items for sale, and drives conversations in one click, replacing an error prone multi session manual flow used by Marketplace teams
- Implemented Marketplace review hub in the Facebook app that consolidated review actions in one interface, driving higher review authoring volume
- Analyzed Marketplace performance bottlenecks for surfaces such as seller profiles, optimizing and caching long running queries to reduce load times from up to 10 seconds to roughly 2
- Implemented end to end encrypted Instagram web voice and video calling by integrating a WhatsApp media library to meet EU compliance deadlines shared across Meta messaging teams
- Built Messenger Desktop group call presence indicator in React Native so participants could see who was active, delivering a statistically significant increase in video calls and hitting a team milestone

CaseWare International

May 2020 – Dec. 2020

Frontend Engineer Intern

Toronto, ON

- Major contributor in Angular 9 migration, upgrading a complex AngularJS dynamic table row component in a tax auditing product used by 5+ top accounting firms
- Reduced bugs by 15% across various parts of our tax form library including UI components and business logic
- Added 5+ new features in existing tax form library components in response to requests and my own initiative after personal conversations with library users
- Eliminated a source of 5% of total regression bugs by proposing and developing a testing tool using Node.js that visually highlights PDF rendering anomalies in printed tax forms to assist with further manual review

Projects

Otto

Feb. 2025 – Present

Founder & Systems Engineer

Automotive telemetry platform

- Led end-to-end design of an automotive telemetry platform spanning hardware, firmware, wireless protocols, and client applications
- Implemented low-level microcontroller firmware in Rust with DMA/interrupt-driven drivers and a custom BLE/GATT protocol; prototyped on multiple RTOSes (including Zephyr) and standardized on Embassy for deterministic 1kHz streaming
- Designed and routed multi-layer PCBs in KiCad integrating 6-axis IMU, GNSS, CAN transceivers, BLE radio, and robust power management; performed bring-up, BSP, and sensor calibration
- Built a companion iOS app in Swift that pairs over Bluetooth LE, configures modules, and visualizes real-time telemetry with offline sync
- Developed a Rust real-time data pipeline with integrity checks, lossless buffering, and automatic failover across modules

Education

University of Toronto

Sep. 2017 – Dec. 2021

Honors, Bachelor of Science in Computer Science

Toronto, ON