

Work Experience

- Manulife | Associate Full-Stack Software Engineer, START Program

June 2024 - Present

 - Optimized and enhanced a full-stack digital tracking app (**TypeScript, React, Node.js/Express.js, Azure**), reducing call center volume by **17%** and increasing unique users by **43%** through improved workflows and data-driven insights
 - Developing two-way communication workflows for insurance and investment advisors for Not In Good Order transactions, **streamlining business processes and reducing operational costs**
- Wealthsimple | Software Engineer

Jan 2024 - Apr 2024

 - Developed a real-time stock option quotes feature using **React Native and TypeScript**, increasing options order flow completion by **33%**
 - Built and launched a unified brokerage experience with **React, TypeScript, Styled Components, and Storybook**, improving product **consistency, security, and accessibility** across web and mobile
- Deloitte Digital | Product and Engineering Consultant

May 2022 - Aug 2022

 - Orchestrated a strategic roadmap, effectively analyzing business requirements across all engineering, product, and design teams for Canada's leading classifieds website, culminating in the successful migration of their legacy code to a cross-platform Flutter mobile application within a tight **6-month timeframe**, generating **5x** as much user engagement
- Arctic Wolf | Design Engineer

May 2021 - Aug 2021

 - Led the migration of a configuration editing process using **JSON and Git** to a **web application** built using **React**, resulting in a **95%** improvement in publishing time efficiency for **200+** security engineers
 - Coordinated with product managers and engineering leads to **break down designs into engineering tasks**, prioritizing and segregating frontend and backend elements for an 8-member team. Accelerated development by **2x**
- WSIB Innovation Lab | Product Designer

Sept 2020 - Dec 2020

 - Collaborated with software engineers to design and ship an accessible **progressive web application** built using **React** for COVID-19 self-assessments, reducing return-to-office procedures by **50%**
- Tecsys | Product Manager and Designer

Jan 2020 - Apr 2020

 - Led frontend software engineers in developing and delivering a **mobile** user experience using **HTML/CSS/Bootstrap** for key pages in the Retail Order Management System, optimizing flows that drove **40%** of customer usage
- CIBC | Software Engineer

May 2019 - Aug 2019

 - Implemented a message receiver for token validation and information storage using **HTML, JavaScript and Java**, which reduced the latency of end-to-end testing procedures by **60%**
 - Deployed a new financial application launch procedure for open banking in **Java** using **agile methods**, facilitating data retrieval from legacy systems for over **2 million** high-value clients

Technical Projects

- Camp Management System (UW Blueprint) | Technologies: React & Node.js/Express.js (TypeScript) • Firebase • Docker • MongoDB

 - Developed **scalable frontend** user interface screens using **Chakra UI, React, and Firebase** for a camp page, along with backend user and camper service **REST APIs** using **Node.js/Express.js and MongoDB**
- Accessibility Checker (Hack the 6ix Award for Best Taipy Hack) | Technologies: Taipy (Open-Source Python Library) • WAVE API • JSON

 - Led and developed a user-friendly **multi-page web application** using **Taipy/Python** that integrated with the **WAVE API** to retrieve web accessibility metrics for user-inputted URLs, then translated the **JSON** data received into visual graphics
- BMR Notes | Technologies: Kotlin • XML • Git • Room • Spring • Gradle

 - Collaborated on the design, architecture and development of a **mobile Android** note-taking application for older adults implemented using a **Model-View-ViewModel (MVVM)** design pattern

Skills

Languages: TypeScript • JavaScript • HTML/CSS • Java • C++ • SQL • C • Python • Kotlin

Tools/Frameworks: React/React Native • Jest • REST • Node.js/Express.js • Git • JSON • APIs • Docker • MongoDB • Firebase

Education

- University of Waterloo

2018 - 2023

Bachelor of Computer Science, Human-Computer Interaction Specialization (Graduated with Dean's Honours, GPA: 3.9/4)

Relevant Courses: Algorithms • Data Structures • Object-Oriented Programming • Computer Security & Privacy • Application Development • User Interfaces • Human-Computer Interaction • Operating Systems • Compilers
- University of Leeds (Study Abroad)

2022 - 2023

Awards

Ontario Remembrance Award (2022) | \$10,000 scholarship for academic achievement

BDO New Venture Finalist (2019) | Placed 4th out of 200+ teams and awarded a \$400 scholarship

University of Waterloo President's Scholarship of Distinction (2018) | \$5000 entrance award