





#### **EDUCATION**

**University of Waterloo** Sept 2020 - April 2025

**Bachelor of Computer Science** Waterloo, Ontario

Relevant Coursework: Data Structures and Algorithms, Operating Systems, Object Oriented Programming, Databases, Compilers

## **TECHNICAL SKILLS**

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

Technologies: React/React Native, Redux, Next.js, Node.js, Express, Spring Boot, Mocha, Tailwind Tools: Git, Docker, Azure, Kubernetes, PostgreSQL, MySQL, MongoDB, Splunk, Jenkins, IntelliJ, Linux

# **EXPERIENCE**

**Manulife Financial** Sept 2023 - Dec 2023

Cloud Engineering Intern

Toronto, ON

• Incoming on the Cloud Innovations team, developing cloud computing services and infrastructure using Java, Go, Azure and Kubernetes to provide efficient and scalable solutions to internal teams and clients

## **Canadian Imperial Bank of Commerce**

Jan 2023 - April 2023

**Backend Developer Intern** 

Toronto, ON

- Delivered key digital cards REST API changes to affect 300,000+ users, using Java, Spring Boot and MySQL
- Built and refactored account information backend services and data objects to enable new CIBC Smart Planner Features
- Overhauled integration test suite for account information micro-service, decreasing build times by 17%
- Debugged and fixed 25+ critical production issues, analyzing logs in Splunk and managing redeployments in Openshift

**PointClickCare** May 2022 - Aug 2022

Software Engineering Intern

Waterloo, ON

- Led development of new API to autofill PDF medical forms from XML form data, using Kotlin and Spring Boot
- Built backend service using Azure file storage to save/retrieve PDF templates, for new medical form flow
- Optimized SQL stored procedures and queries for manipulating test data, reducing dev environment startup by 25%
- Wrote unit tests in Kotlin, and end-to-end tests in Cypress, increasing overall test coverage by 20%

**PBSC Urban Solutions** May 2021 - Aug 2021

Software Developer Intern

Longueuil, QC (remote)

- Developed new UI components and views for bike provider payment flows, using TypeScript, React Native, and Redux
- Implemented bluetooth connectivity for locking e-bikes, using native APIs, garnering 4000+ users in first month
- Spearheaded new automated end-to-end testing system using Mocha, Appium and WebdriverIO, speeding up regression workflow by 30%
- Wrote unit and snapshot tests using Jest and Enzyme, increasing overall test coverage from 42% to 70%

## **PROJECTS**

Aitomind | React, Node.js, Express, Azure, MongoDB

- · Developed full stack web app that transcribes speech from educational videos and generates conceptual mindmaps
- Built responsive frontend in React, and backend services and RESTful endpoints in Node.js and Express
- Leveraged Azure Cognitive Services REST APIs, and deployed ML model on Azure to extract connected keywords and concepts
- Connected backend to MongoDB to store mindmaps, using Mongoose object modelling library to define schema of mindmaps

**No Laughing Matter** | Node.js, Express, Websockets (Socket.IO), WebRTC

- Developed realtime video chat game, that detects and measures each player's laughter to score a player's jokes
- Utilized Socket.IO to manage real time video chat lobbies, and WebRTC to facilitate real time video streaming
- Integrated a Tensorflow.js library to measure user laughter from analyzing facial expression and sentiment

Personal Interests: Digital Ethics, Music Production, Guitar, Martial Arts, Philosophy, Art History