

Michael Le

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EDUCATION

University of Waterloo

Sept 2019 to Apr 2023 (Expected)

Candidate for Honours Bachelor of Computer Science (BCS)

- 3.89 Cumulative GPA, Dean's Honour List

EXPERIENCE

Software Developer

Jan 2021 to Apr 2021

Newtopia Inc.

Toronto, ON

- Created new public API endpoints in **Apex** with **improved security** protecting **10000 monthly users**
- Refactored **React Native** android application with **TypeScript** and reduced **memory usage by 25%**
- Managed application and user state with **Redux** to handle asynchronous data fetching
- Implemented support for assistive technologies to meet **WCAG accessibility** requirements

Salesforce Software Engineer

May 2020 to Aug 2020

Manulife Financial – Manulife Technology Division

Waterloo, ON

- Developed a reliability monitoring framework using **Apex** and **SOQL** that helps **debug over 33%** of reported issues in Manulife's services
- Used **HTML** and **JavaScript** to create a web application for the monitoring framework, featuring data visualization with tables and graphs, filtering, and exporting of data
- Successfully handles **6000+ logs** every day in real time without hindering server performance

PROJECTS

Spatial.DJ

Apr 2021 – May 2021

- Engineered a full stack web app that allows users to watch YouTube videos and chat with other users
- Designed UI prototype using **Figma** and implemented responsive layouts using **React**
- Created **Socket.IO** events in **Express.js** to allow real time communication between users

crowd.data

Jan 2021

- Developed a crowdsourcing platform where users can contribute to open-source data sets
- Integrated **DropBase API** to **instantly** upload user files to database from **Node.js** backend
- Leveraged **CockroachDB** and **Sequelize ORM** to store user and upload data in **SQL** database
- Designed website components with **React** to handle form data and file upload

HootGuard

Sept 2019

- Produced an android application with **Java** and **XML** that detects a driver's face and predicts whether they are drowsy/distracted, successfully tested on 10+ users
- Utilized the Machine Learning kit from **Google's Firebase API** to track facial features in **real time**

Tachometer for Rotating Magnetic Fields

Feb 2019

- Created a tachometer using **Arduinos** that detects the speed of nearby rotating magnetic fields
- Implemented a **C++** program to control motors and sensors, and calculate rotations per minute with an accuracy of **±0.05 RPM**

SKILLS

- **Languages:** C++, JavaScript, TypeScript, Java, Apex, C, HTML, CSS, Bash
- **Technologies:** Salesforce, React, React Native, Redux, Node.js, Express.js, REST APIs, Git, AWS, CockroachDB, Linux, Trained in Agile and Scrum, Jira, Confluence