Michael Le

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EDUCATION

University of Waterloo   Sept 2019 to Apr 2023 (Expected)
Candidate for Honours Bachelor of Computer Science (BCS)   *Waterloo, ON*
- 3.89 Cumulative GPA, Dean's Honour List

EXPERIENCE

Applyboard   Sept 2021 – Dec 2021
Incoming Software Engineer   *Waterloo, ON*
- Incoming software engineer working on backend services used by thousands of students each day

Newtopia Inc.   Jan 2021 – Apr 2021
Software Developer   *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

Manulife Financial (Technology Division)   May 2020 – Aug 2020
Salesforce Software Engineer   *Waterloo, ON*
- Developed a data aggregation framework using **Apex** and **SOQL** that helps **diagnose over 33%** of **performance issues** reported in Manulife's services
- Used **HTML** and **JavaScript** to create a web application for the framework, featuring data visualization with tables and graphs, filtering, sorting, and exporting of data
- Successfully handles **6000+ logs** every day in real time without hindering server performance

PROJECTS

Spatial.DJ   Apr 2021 – May 2021
- Silver prize winner (top 20 overall project) at Build on Redis 2021 Hackathon
- 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** and **Redux**
- Created **Socket.IO** events in **Express.js** to allow real time communication between users

crowd.data   Jan 2021
- Placed top 4 out of over 30 submissions for the Dropbase API prize at Hack the North 2020++
- 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

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, Agile and Scrum, Jira, Confluence