Michael Le

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EDUCATION

University of Waterloo   Sept 2019 to Apr 2024 (Expected)
Candidate for Honours Bachelor of Computer Science (BCS)   *Waterloo, ON*
- 3.9 Cumulative GPA (out of 4.0), 90.2% Cumulative Average, Dean's Honour List

EXPERIENCE

Riot Games   May 2022 – Aug 2022
Software Engineer Intern   *Los Angeles, California*
- Engineering a company-wide rate limiting solution using **Go**, handling over **100k** API requests/min
- Spearheading the project by writing **system architecture documents** and planning tasks with Jira
- Utilized **Redis** as a distributed cache to store users' rate limiting information and allowlists
- Created **Jenkins** multibranch pipelines to automatically test, lint, build, and deploy changes on push

Applyboard   Sept 2021 – Dec 2021
Software Engineer Intern   *Waterloo, Ontario*
- Built backend services with **Ruby on Rails** and **MySQL,** helping users search for data more accurately
- Secured APIs with a permission system using **Pundit**, protecting database from unauthorized users
- Actively built and deployed code to production using CI/CD tools like Docker, Jenkins, AWS CodeBuild

Newtopia Inc.   Jan 2021 – Apr 2021
Software Developer Intern   *Toronto, Ontario*
- 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

Manulife Financial (Technology Division)   May 2020 – Aug 2020
Salesforce Software Engineer Intern   *Waterloo, Ontario*
- 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

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 sensors and calculate speed with an accuracy of **±0.05 RPM**

SKILLS

- **Languages:** C++, Go, JavaScript, TypeScript, SQL, Ruby, Java, Apex, C, HTML, CSS, Bash
- **Technologies:** REST APIs, Node.js, Express.js, Rails, React, React Native, Redux, Git, AWS, Redis, CockroachDB, MySQL, PostgreSQL, Docker, Salesforce, Agile and Scrum, Jira, Confluence