

Michael (He Yang) Li

Michaelxkayo@hotmail.com ☎ +1 (905) 616 8745 ☎ <https://michael-li.vercel.app>

EDUCATION

University of Waterloo

Bachelor of Mathematics (Co-op)

Waterloo, ON

September 2021 – April 2026

TECHNICAL SKILLS

- Python
- Java
- Cypress/Selenium
- ReactJs/NextJs
- VueJS/NuxtJS
- TypeScript/Javascript
- Ruby on Rails
- NodeJs/Express
- MySQL/PostgreSQL/SQLite
- Prisma/Mongoose
- HTML/CSS/Tailwind
- AWS

Internship Experience

Ontario Ministry of Education

Aug 2024 – Dec 2024

.Net Developer Intern

- Developed a Full Stack AI powered Analysis Tool for the Operations Team to find potentials solutions of Common Vulnerability Exposures (CVE) utilizing Lama 3.1-70b and Scrapping NIST NVD/CVE Mitre for bulk information retrieval using **Python**, **Javascript**, **HTML**, and **Tailwind CSS**.
- Identified important areas to be tested and developed unit tests using **Nunit**, **.Net Core** and **C#** and **E2E tests** using **Selenium** to ensure that the product was functioning as intended.

Kaima Data Ltd.

May 2023 - Aug 2023

Software Engineer Intern

- Contributed to the development of the company's payment portal, utilizing **React.js**, **Node.js** and **Express** to create a seamless and intuitive payment interface for customers.
- Implemented **GraphQL** models and queries to fetch and display data dynamically, enhancing user experiences with real-time updates and responsive web applications.
- Performed **E2E Tests** with **Cypress** and performed component testing with **Storybook**

Everforth Ltd.

Nov 2022 - April 2025

Back End Engineer Intern

- Developing a Full Stack Application leveraging **Nuxt.js**, **Vue.js** and **HTML/CSS** on the front end and **Java Spring Boot** on the back end.
- Developed and deployed **AWS Lambda** Functions with the **Serverless Framework** using **Python** and **NodeJS**.
- Designed and developed a scalable **AWS Step Function** workflow to automate creations of a PDF from user data.

Projects

Full Stack Generative AI Market Place

- Developed a Full Stack Application to allow users to Share their own interesting Generative AI Images using **React**, **MongoDB**, **ExpressJS**, and **TypeScript**.
- Utilized **Docker** and **Github Actions** to create multi-staged Deployment for efficient manual testing in production environments.
- Implemented image generation tool using **OpenAI API** with strict daily rate limits to allow users to generate images on the platform.
- Setup Session based Authentication using **Redis** and **ExpressJS**. and protected private API endpoints.

Premier League Python Package

- Developed a **Python** Package that finds Transfers, Team Ranking, Match Statistics and Top Player Stats of a given for the top 5 European Leagues.
- **Scrapped Over 19,000 Advanced Soccer Statistics** and automated the initialization of a **SQLite** database for Machine Learning training upon package installation.
- Implemented **Flask** API and **AWS Lambda/API Gateway** options to allow the user to expose and deploy the **python** package in the form of an API rapidly.