

Michael (He Yang) Li

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EDUCATION

University of Waterloo

Bachelor of Mathematics (Co-op)

Waterloo, ON

September 2021 – April 2026

TECHNICAL SKILLS

- Python
- Java
- C#
- ReactJs/NextJs
- VueJS/NuxtJS
- TypeScript/JavaScript
- Ruby on Rails
- NodeJs/Express
- SQL
- Prisma/Mongoose
- HTML/CSS/Tailwind
- AWS

Internship Experience

Ontario Ministry of Education

Aug 2023 – Dec 2023

.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#** to ensure that the product was functioning as intended.
- Developed E2E Test automation scripts using **Selenium** for various web applications of the Ministry of Education, ensuring the quality and reliability of the software products.

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.

Everforth Ltd.

Nov 2022 -Present

Freelance Full-Stack Engineer

- 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.
- 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 and Top Player Stats of a given Premier League Season by scraping notable public websites.
- Utilized the **BeautifulSoup** library for web scraping and XML paths to navigate through **HTML** and **XML** documents, filtering and extracting important information.
- Set up a **Flask** API and an **AWS Lambda/API Gateway** Application to deploy the **python** package in the form of an API.