# Michael (He Yang) Li

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#### **University of Waterloo**

Waterloo, ON

Bachelor of Mathematics, Computing Minor (Coop)

September 2021 – April 2026

#### **Technical Skills**

- Python
- React/NextIS
- Javascript/Typescript
- Express[S/Node]S
- Flask/FastAPI
- MySQL/SQlite/MongoDB
- Docker
- Prisma/Mongoose
- AWS

#### **Experience**

Musashi AI

May 2025 - Aug 2025

Full Stack Developer Intern

- Developed an AI-driven visual inspection system for vehicle components contributing to defect detection and quality assurance.
- Developed Serverless workflows to Fetch images from AWS S3 and invoked AI models for visual inspections and analysis.
- Contributed to the development of the full-stack analytics application using Vue.js, Typescript, Docker,
   Python and Fastapi to visualize inspection results and system performance.
- Analyzed AI results to accurately output predictions, confidence levels, acceptance thresholds, and relevant metrics.

#### **Ontario Ministry of Education**

Sept 2024 – Dec 2024

Software Developer Intern

- Developed tools using Python, HTML and CSS to streamline the process of finding information of Common Vulnerabilities and Exposures (CVE) utilizing Gemini AI API and NIST NVD API.
- 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.

## **Projects**

## Market Place for AI Generated Image

- 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.
- Integrated **OpenAI API** with strict rate limits to allow users to generate images on the platform.

### **Premier League Library**

- Created a **Python** package to analyze transfers, team rankings, top player stats, and match statistics for the top 5 European leagues.
- Scraped over 19,000 advanced soccer statistics and automated the initialization of a SQLite database for machine learning training upon package installation.
- Developed a Flask API Server and an AWS Lambda/API Gateway application to allow users to expose the library as an API.