

MICHAEL HE

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SKILLS

Languages

Java C/C++ JavaScript TypeScript HTML/CSS Python Scala Go

Technologies

React Flask Next.js Node.js Express.js Apollo Docker Git/GitHub AWS

Databases

PostgreSQL MySQL Firebase GraphQL MongoDB

EDUCATION

University of Waterloo

Waterloo, ON

BACHELORS OF COMPUTER SCIENCE

2019 - 2024

- Average: **93%**, Major Average: **95%**, GPA: **3.96/4.0**
- Data Structures & Algorithms - Advanced (**94%**), OOP - Enriched (**94%**), Compilers - Enriched (**99%**), Statistics (**97%**)
- Nortel Institute Scholarship (**\$3500**), President's Scholarship of Distinction (**\$2000**), Joe C Lee Math Scholarship (**\$1200**)

EXPERIENCE

A Thinking Ape

Vancouver, BC

SOFTWARE ENGINEER INTERN (ONGOING)

SEP 2021 - PRESENT

- Building community-driven games with millions of players

Wish

San Francisco, CA

SOFTWARE ENGINEER INTERN

MAY 2021 - AUG 2021

- Built a service adopted by **10,000+** merchants to store their items at Wish warehouses using **React**, **Go**, and **GraphQL**
- Implemented an **address book** feature to allow Wish Parcel users to save addresses, increasing users by **2,000+**
- Created REST endpoints and GraphQL queries using **Go** to filter **25,000+** shipments, increasing performance by **50%**
- Developed localization **CI/CD pipelines** with **Gitlab** to extract and translate **3,000+** strings from Wish services
- Wrote unit, integration, and E2E tests using **Nightwatch.js** to increase coverage by **15%**

Workplace Safety & Insurance Board - Innovation Lab

Kitchener, ON

FULLSTACK DEVELOPER INTERN

JANUARY 2021 - APRIL 2021

- Built a secure authentication system to issue credentials for **324,000** WSIB clients using **React** and **Flask**
- Created a chatbot to assist **5,000,000+** clients file insurance claims using **Dialogflow**
- Implemented a redesign of the lab website using **React**, improving accessibility and responsiveness

Hubdoc - A Division of Xero

Toronto, ON

SOFTWARE DEVELOPER INTERN

MAY 2020 - AUGUST 2020

- Developed containerized web-scraping microservices for **10,000+** clients using **Node.js**, **Nightmare.js**, & **Puppeteer.js**
- Improved document-fetching success rate by up to **80%** by handling bot detection and refactoring legacy code
- Implemented intranet features to control AWS EC2 instances using **Handlebars.js**, **Backbone.js** and **PostgreSQL**
- Wrote unit tests using **Chai** and **Mocha**, increasing coverage by **70%**

PROJECTS

VM - (source available on request)

C++, NCURSES

DECEMBER 2020

- Created a clone of vim, the command-line text editor, with all core features implemented (**100+** commands)
- Followed Object Oriented Principles, using **Observer**, **Command** and **Singleton** Design Patterns to produce modular code

Relay - 🐞

REACT, FLASK, TWILIO, MONGODB

MAY 2020

- Created an **SMS** service to access social media platforms without an internet connection
- Allowed users to send/receive messages, view notifications, and make posts on **Twitter** and **Facebook**

ShotSpot (Winner @StarterHacks2020)- 🐞

NODE.JS, EXPRESS.JS, PYTHON, AWS

JANUARY 2020

- Built web app to recommend photo spots by scraping Instagram for photos/locations and storing them in an **AWS S3** Bucket
- Won **Most Promising** and **Best Use of AWS** awards at StarterHacks 2020
- Added a feature to **explore** recommended locations **virtually** through Google Street View