MICHAEL HE

📞 (778) 319-6115   ✉ michael.he2001@gmail.com   in michael-he   ⬡ GitHub   🌐 michaelhe.tech

EXPERIENCE

Software Engineer Intern (Ongoing)
Wish

📅 May 2021 - Present   📍 San Francisco

- Marketplace & Logistics team

Full Stack Developer Intern
Workplace Safety & Insurance Board - Innovation Lab

📅 January 2021 - April 2021   📍 Kitchener

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

Software Developer Intern
Hubdoc - A Division of Xero

📅 May 2020 - August 2020   📍 Toronto

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

PROJECTS

VM

📅 November 2020 | *C++, NCurses*

- Created a clone of vim, the command-line text editor
- Followed **Object Oriented Principles** and used the **Observer** and **Singleton** Design Patterns to allow for ease of future improvements

---

Relay

📅 May 2020 | *React, Flask, Twilio, MongoDB*

- Created an **SMS** service to access social media while offline, allowing users to send/receive messages, view notifications, and make posts

---

Clothing Identifier

📅 March 2020 | *HTML/CSS, Flask, Keras, Tensorflow, AWS*

- Built a web app to classify image input as a clothing category
- Trained a **90%** accurate **AI** model with **AWS SageMaker**

ShotSpot - *Winner @ StarterHacks 2020*

📅 January 2020 | *Node.js, Express.js, Python, AWS*

- Created a web app to display top photo spots by scraping Instagram for locations and photos and storing them in an **AWS S3** Bucket
- Added a feature to **explore** recommended locations **virtually**

EDUCATION

Bachelors of Computer Science
University of Waterloo

📅 2019 - 2024

- Nortel Institute Scholarship, President's Scholarship of Distinction
- Average: **93%**, GPA: **3.96/4.0**
- Coursework: Data Structures and Algorithms (Advanced), OOP (Enriched), Sequential Programs (Enriched), Statistics

SKILLS

Languages

Java   C/C++   Python   JavaScript   HTML/CSS   Scala   Kotlin   R

Frameworks/Technologies

React   Flask   Node.js   Express.js   Next.js   Django   TensorFlow   Keras

Databases

PostgreSQL   Firebase   MongoDB

Tools

Docker   AWS   Git/GitHub   Linux   Bash   Jira   Agile/Scrum   Jupyter

ACHIEVEMENTS

- **Joe. C Lee Scholarship (2021)**
  Awarded for scholastic excellence & passion for entrepreneurship
- **4th Place (2019)**
  at UBC Physics Olympics
- **TELUS Entrance Scholarship (2019)**
  One of 10 recipients across Canada
- **Valedictorian (2019)**
  at Moscrop Secondary School
- **Canadian National AP Scholar (2017)**
  One of only 11 sophomores to receive this award out of 30 000 Canadian AP Students

INTERESTS

Digital Art   Photography   Dragonboating   Basketball