MICHAEL HE

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in michael-he

GitHub

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EXPERIENCE

Full Stack Developer Intern

Workplace Safety & Insurance Board - Innovation Lab

₩ Winter 2021

Kitchener

 Incoming intern, will develop full-stack R&D projects using technologies such as React.is, MongoDB, Firebase, Node.is and Flask

Software Developer Intern

Hubdoc - A Division of Xero

May 2020 - August 2020

▼ Toronto

- Developed and maintained web-scraping microservices for 100 000+ clients using JavaScript, Nightmare.js, Puppeteer.js, and Node.js
- Improved document-fetching success rate by up to 80% by refactoring legacy code and handling bot detection
- Implemented intranet features using Handlebars.js, Backbone.js and PostgreSQL to provide control over AWS ECS instances
- Wrote unit tests for newly developed features using Chai and Mocha

PROJECTS

Clothes Classifying Web App

- Built a web app that can classify an image input as a clothing category
- Used the Keras library alongside Tensorflow and AWS SageMaker to train a CNN model that was then stored in an AWS S3 Bucket
- Built the backend with Flask and the frontend with HTML/CSS
- Achieved 90% accuracy on this multiclass classification problem

ShotSpot - StarterHacks 2020

聞 January 2020

- Created web app that displays the best photography locations
- Winner of: Most Promising, Best use of AWS, Best Domain
- Built on a Node.js and Express.js backend and deployed with Heroku
- Wrote a data-scraping Python script using BeautifulSoup to find optimal locations, scrape sample photos, and upload data as a JSON file to an AWS S3 Bucket

Zenith Studios Android Apps

2015 - Present

- Published an app to predict box office gross using historical data and categorical statistical method with sub 10% margin of error
- Developed a UI-modifying application to check for dead pixels and screen defects, received a 4.5/5 rating with 90%+ approval rating over 5000+ downloads
- Created soundboard application with custom media control system
- Developed improved alarm clock app using Android AlarmManager, Fragments, and Intents

SKILLS

Languages



Frameworks/Technologies



Tools



EDUCATION

Bachelors of Computer Science

University of Waterloo

2019 - 2024

- Nortel Institute Scholarship & President's Scholarship of Distinction
- Average: 92.5% Dean's Honours list
- · Coursework: Data Structures and Algorithms (Advanced), OOP (Enriched), Sequential Programs (Enriched), Statistics

ACHIEVEMENTS



4th Place (2019)

at UBC Physics Olympics



TELUS Entrance Scholarship (2019) One of 10 recipients across Canada



Valedictorian (2019)

at Moscrop Secondary School





Top 10 in Province (2017)

Canadian AP Students

for American Math Contest (AMC 10)

INTERESTS

