

MICHAEL CHI

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in michael-chi/
🔗 mchigit

Skills

Languages

JavaScript
Python
TypeScript
Scala
SQL

Frameworks

React/Vue
Node/Express.js
Selenium
Django

Tools

Git
AWS
Docker
Terraform
Linux
Agile (Scrum)

Relevant Courses

Distributed Computing
Computer Networks
Operating Systems
Algorithms and Data Structures

Work Experience

Inkling

Software Engineer

San Francisco, CA
June 2020 - Current

- Led the design, and implementation of the consent form project for Mcdonald's, which allowed them to request tracking consent from end-users before giving access to content
- Designed and implemented notification feature for user feedback using AWS SNS, SQS, Lambda, and Stream
- Researched and created prototypes for the regionalization project, which allowed Inkling products to support regionalized languages
- Automated AWS infrastructure modification using Terraform

Freshii

Software Developer Intern

Toronto, ON
Sept. 2018 - Dec. 2018

- Led a team of 2 engineering interns to develop backend API using Node.js and Google Cloud, which improved the career application process
- Shipped features in Vue.js for Freshii's online ordering system, including Google Authentication and inquiry submission
- Introduced coding guidelines, and documented development processes for on-boarding future engineers

Sortable

Software Developer Intern

Kitchener, ON
Jan. 2018 - Apr. 2018

- Automated 100 hours of weekly manual tasks by implementing a system in Scala and AngularJS to schedule report generation and distribution
- Developed logging feature for Sortable's reporting platform, using Python to connect to Google Cloud for storage
- Built a JavaScript query parser that generated SQL queries from user input, reducing error rate and querying time by 10%

IBM Canada Ltd.

Software Developer Intern

Toronto, ON
May 2017 - Aug. 2017

- Implemented a Node.js API to control Single Sign-On configurations and authentication, leveraged Redis to cache certificates and created UI with React
- Designed and built a Node/React-based IP Whitelist System, working with SFTP server to provide resource authorization
- Wrote unit tests to validate API endpoints, which increased code coverage by 23%

Projects

Investopedia Simulator API (Ongoing)

- A Python library that allows others to automate simulator trading actions, such as retrieving account info, and making trades
- Built using Selenium to scrape the Investopedia Simulator page and to perform various actions

Computer Networks (academic)

- Simulated a router queue in Python, and measured its performance by observing the number of packet losses
- Designed a discrete event simulator to measure the efficiency and throughput of CSMA/CD Network Protocol

Cryptoz Cards

- A digital crypto trading game written in Vue.js and Web3
- Enhanced UI using Vue.js and Bootstrap

Exam Calendar

- Created a calendar using React and Waterloo Open Data API to summarize course exam times, used by a club of 70+ students to organize events

Education

University of Waterloo

B.Sc Computer Engineering

Sept. 2015 - May 2020