

FELIX CHEN

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EXPERIENCE

Teaching Assistant

University of Toronto

📅 05/2021 – 08/2021

📍 Remote

- Instructed students on computability and computational complexity topics
- Led 30 students during weekly tutorials and office hours

Site Reliability Engineer Intern

IBM

📅 05/2020 – 08/2021

📍 Remote

- Implemented client self service using Kubernetes, Ansible, MongoDB and IBM Cloud eliminating 240 hours per week worth of manual operations
- Provided IBM Cloud offerings on Kubernetes, Docker and Windows for 3600+ environments by leveraging PagerDuty, LogDNA and NewRelic

Software Engineer Contract

Safe Sign

📅 10/2020 – 01/2021

📍 Remote

- Engineered dynamic form creation, form responses and user administration
- Leveraged React, MongoDB, TypeScript, JWTs, Bootstrap and Heroku

Information Developer Intern

IBM

📅 09/2018 – 04/2020

📍 Toronto & Remote

- Led development on 10+ dashboards, a natural language classifier and a rewards program, increasing Stack Overflow db2-luw followers by 53%
- Delivered a Slack bot with PagerDuty integration, Socket.IO collaborative issue tracker, documentation health checker and documentation crawler

Software Developer Intern

Extreme Networks

📅 01/2018 – 04/2018

📍 Toronto

- Developed test automation using Python's Selenium and 4 Linux VMs
- Supervised 120+ smoke and nightly tests, identifying bugs to developers

PROJECTS

Calcifer 🐙 🔗

- Architected on demand Kubernetes, Docker and programming language sandboxes with a collaborative IDE
- Utilized Docker, Nginx, MongoDB, Redis, Socket.IO, Angular, Monaco and xterm.js

Distributed-ECC-Cache 🐙

- Engineered a novel approach for availability in distributed caching using Rust, Reed-Solomon codes and Raft

Web-Watcher 🐙 🔗

- Created a microservice application that captures website changes and notifies users using Kubernetes and React

Nitrus 🐙 🔗

- Developed an application where users vote and listen to a Spotify priority queue using Azure, React and Spotify API

EDUCATION

HBSc Computer Science

University of Toronto

📅 09/2016 – 04/2022

LANGUAGES

TypeScript

JavaScript

Go

Rust

Python

C

Haskell

Java

Bash

PowerShell

TECHNOLOGIES

Distributed Systems

Map Reduce, Raft

SRE

Kubernetes, Docker, Ansible, LogDNA, Rundeck, New Relic, PagerDuty

Cloud

IBM Cloud, Google Cloud Platform, AWS, Azure, Digital Ocean, Heroku

Frontend

React, Angular, WebRTC, jQuery, JWT, Cookies, Bootstrap, Google Material Design, IBM Carbon Design

Backend

Express, Socket.IO, Flask, ShareDB

Databases

MongoDB, Redis, PostgreSQL, CouchDB

Integrations

GitHub, Slack, Spotify, SendGrid, Stack Overflow

Machine Learning

Neural Networks, classification, regression, clustering, NumPy, PyTorch