# **FELIX CHEN**

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# **EXPERIENCE**

# Software Engineer Intern

## Google

**i** 09/2021 - 12/2021

- Remote
- Developed a framework to automate Chaos Engineering experiments
- Scheduled Chaos Engineering experiments on reCaptcha

# **Teaching Assistant**

## **University of Toronto**

- **i** 05/2021 08/2021
- Remote
- Instructed students on computability and computational complexity
- Led 30 students during weekly tutorials, office hours, and final exams

# Site Reliability Engineer Intern

### IBM

**i** 05/2020 - 08/2021

- Remote
- Implemented self serve using Kubernetes, Ansible, MongoDB, and IBM Cloud, eliminating 240 hours per week worth of SRE operations
- On call for offerings on Kubernetes, Docker and Windows for 3600+ environments by leveraging PagerDuty, LogDNA, and NewRelic

# Information Developer Intern

#### **IBM**

**i** 09/2018 - 04/2020

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

## Software Engineer Intern

#### **Extreme Networks**

- **1** 01/2018 04/2018
- Toronto
- Developed UI testing automation using Selenium and 4 Linux VMs
- Supervised 120+ smoke and nightly tests, identifying bugs to developers

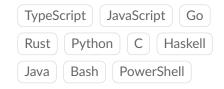
# **EDUCATION**

# HBSc Computer Science

# **University of Toronto**

**i** 09/2016 - 04/2022

# **LANGUAGES**



# **TECHNOLOGIES**

### **Distributed Systems**

Raft, Map Reduce, gRPCs

#### 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

# **PROJECTS**

### Calcifer (7 &

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

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- Researched distributed systems and error correction codes (ECC) to build distributed caches
- Implemented two distributed caches to compare ECC against replication finding ECC used 58% the memory of Raft

## Web-Watcher 🖸 🔗

• Created a microservice application to capture website changes and notify users using Kubernetes and React

## Nitrus 🖸 🔗

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