FELIX CHEN

@ felixchen1998@gmail.com   ● Toronto, Canada   🌐 felixjchen.github.io   felixjchen   in felixjchen   felixjchen

EXPERIENCE

Software Engineer Intern
Google

📅 09/2021 – Present   📍 Remote

- Developed a framework for SRE to schedule chaos engineering experiments
- Automated daily chaos engineering experiments on reCaptcha

Teaching Assistant
University of Toronto

📅 05/2021 – 08/2021   📍 Remote

- Instructed students on computability and computational complexity
- Led 30 students in 10 weekly tutorials, office hours, and final exams

Site Reliability Engineer Intern
IBM

📅 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

📅 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, Socket.IO collaborative issue tracker, documentation health checker, and documentation crawler

Software Engineer Intern
Extreme Networks

📅 01/2018 – 04/2018   📍 Toronto

- Developed UI testing automation using Selenium and 4 Linux VMs
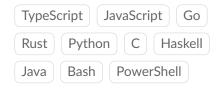- Supervised 120+ smoke and nightly tests, identifying bugs to developers

EDUCATION

HBSc Computer Science
University of Toronto

📅 09/2016 – 04/2022

LANGUAGES

TypeScript   JavaScript   Go   Rust   Python   C   Haskell   Java   Bash   PowerShell

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
- Developed on demand Kubernetes, Docker, and programming sandboxes in the browser with collaborative IDEs
- Utilized Angular, Docker, Nginx, MongoDB, Redis, Socket.IO, Monaco, and xterm.js

ECC-Cache
- 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 React and Kubernetes

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