FELIX CHEN

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EXPERIENCE

Software Engineer Intern
Google
09/2021 – 12/2021 · Remote

- Developed a framework to automate Chaos Engineering experiments
- Scheduled 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 during 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 integration, 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
- Architected on demand Kubernetes, Docker, and programming sandboxes with a collaborative IDE
- Utilized Docker, Nginx, MongoDB, Redis, Socket.IO, Angular, 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 Kubernetes and React

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