FELIX CHEN

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EXPERIENCE

Software Engineer Intern
Google

📅 09/2021 – Present   📍 Remote

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

Site Reliability Engineer Intern
IBM

📅 05/2020 – 08/2021   📍 Remote

- Implemented self service using Kubernetes, Ansible, and MongoDB, eliminating 240 hours per week worth of SRE operations
- Provided 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

- Developed custom form creation, form responses and user administration using React, MongoDB, TypeScript, bcrypt, JWTs, Bootstrap and Heroku

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 web application testing 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 two 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