FELIX CHEN

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EXPERIENCE

Blockchain Developer
dApp Technology

📅 11/2021 - Current   📍 Remote

- Delivered Solidity smart contracts for tokens, NFTs, and dapps
- Developed Web3 applications leveraging MetaMask, The Graph, and more

Software Engineer Intern
Google

📅 09/2021 – 12/2021   📍 Remote

- Developed a framework for SRE to schedule chaos engineering experiments using Python, DiRT, BorgCron, Chubby and Colossus
- Programmed 2 daily chaos engineering tests on reCAPTCHA production

Teaching Assistant
University of Toronto

📅 05/2021 – 08/2021   📍 Remote

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

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
- 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%
- Automated support paging using PagerDuty API, Slack API and IBM Cloud Functions, saving thousands of hours spent monitoring Slack

PROJECTS

Calcifer ◉ 🔗
- Developed on demand Kubernetes, Docker, and programming sandboxes in the browser
- Implemented real-time collaboration inside sandbox text editor and terminal
- Utilized Docker in Docker, Nginx, Angular, Redis, MongoDB, Socket.IO, Monaco, and xterm.js

Error Correction Code Key-Value 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

Screen Share ◉ 🔗
- Created a peer to peer application for screen sharing using Peer.JS, React, TypeScript and Carbon Design

EDUCATION

HBSc Computer Science
University of Toronto

📅 09/2016 – 04/2022

LANGUAGES

Python   TypeScript   Go

Rust   JavaScript   Solidity

C   Haskell   Java   Bash

SKILLS

Distributed Systems
Raft, Map Reduce, gRPC

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

Cloud
AWS, Google Cloud Platform, Azure, IBM Cloud, 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