

Felix Chen

Software Engineer

Passionate and driven undergraduate with 2.5+ years of industry experience involving DevOps, full-stack development, public cloud, machine-learning and testing.

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EDUCATION

BSc Computer Science, Software Engineering, Co-op University of Toronto

09/2016 - 04/2022

GPA 3.21/4.00

WORK EXPERIENCE

DevOps Developer Intern IBM

05/2020 - Present

Achievements

- Developed customer self service using Kubernetes, Ansible and Kafka, eliminating thousands of manual operations hours
- Reduced toil with Ansible, Powershell, Bash, Python and Github API
- Maintained SaaS offerings on Kubernetes, Docker and Windows for 1200+ environments, actioned pager alerts, provisions and modifications

Information Developer Intern IBM

09/2018 - 04/2020

Achievements

- Led a Stack Overflow initiative, engineered 10+ dashboards, rewards program and NLC question routing, increasing db2-luw tag watchers by 53%
- Automated support escalation paging using PagerDuty API, Slack API and cloud functions, saving thousands of hours spent on monitoring Slack
- Delivered a web crawler, wiki cloner and documentation quality checker

Software Developer Intern Extreme Networks

01/2018 - 12/2018

Achievements

- Developed a nightly test suite using Python, Selenium and Chromedriver
- Supervised 100+ tests running in parallel across 4 CentOS VMs

PROJECTS

Web Watcher (05/2020) 🔗

- Created a **microservice** application to notify users upon website changes
- Leveraged Kubernetes, React, JWT, AWS, IBM Cloud, OpenCV and Puppeteer

Spotify Vote (08/2020) 🔗

- Engineered a **realtime** web application for users to vote and listen to a Spotify queue
- Utilized SocketIO, React, TypeScript, Spotify API and IBM Carbon Design

Screen Share (05/2020) 🔗

- Developed a **peer to peer** web application for users to stream video and audio
- Used PeerJS, Screen Capture API, jQuery, Netlify and IBM Carbon Design

Minesweeper Q-Learning (05/2020) 🔗

- Implemented the Q-Learning algorithm to play 4x4 Minesweeper using NumPy

LANGUAGES

JavaScript

HTML

CSS

Python

Java

C

Bash

PowerShell

TypeScript

Go

Haskell

LaTeX

TECHNICAL SKILLS

Frontend

React, jQuery, Cookies, Bootstrap, Chart.js, Material Design, Carbon Design, PeerJS

Backend

Express, Flask, Socket.IO, JWT, Node.js

Databases

PostgreSQL, MongoDB, CouchDB

DevOps

Kubernetes, Docker, Ansible

Cloud

AWS, Azure, GCP, IBM Cloud

Operating Systems

Linux, Windows, MacOS

Machine Learning

NumPy, Classification, Regression, Clustering, Reinforcement Learning, Neural Networks

Integrations

Github, Slack, Spotify, Stack Overflow

CERTIFICATES

Docker Essentials (01/2020)

IBM Cloud Kubernetes Service (12/2019)

Containers, K8s and Istio on IBM Cloud
(05/2020)

VOLUNTEER EXPERIENCE

Robot Design Judge FIRST Lego League

12/2018

Tasks

- Judged the design of Lego robots
- Advocated for teams in the ranking process