# 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) 🗗

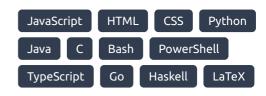
- Engineered a realtime web application for users to vote and listen to a Spotify queue
- Utilized SocketIO, React, TypeScript, Spotify API and IBM Carbon Design

- 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**



# **TECHNICAL SKILLS**

### **Frontend**

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

#### Backend

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

### **Databases**

PostgeSQL, 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