

# Felix Chen

## Software Engineer

Passionate and driven undergraduate with 2.5+ years of internship 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
- Reduced toil with Ansible, Powershell, Bash and Python
- Maintained SaaS offerings on Kubernetes, Docker and Windows for 1200+ clients, 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 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

### Neural Networks (05/2020) 🔗

- Built neural networks with NumPy, user controls shape, activation and loss functions

## 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

### Backend

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

### Databases

PostgreSQL, MongoDB, CouchDB

### DevOps

Kubernetes, Docker, Ansible

### Cloud

AWS, Azure, GCP, IBM Cloud

### Machine Learning

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

### Operating Systems

Linux, Windows, MacOS

## 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