

# Mohsin Khan

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## Work Experience

### **Awesense, Vancouver — Software DevOps Engineer**

Sept 2020 - Jan 2021, Oct 2021-Dec 2022

- Created CI/CD Pipelines capable of parallel builds leading to higher Dev QOL
- Developed multi-tenant environments on kubernetes, providing developers QA/Testing with sandbox environments speeding up development and optimizing QA/Testing infrastructure cost by 50%
- Researched, planned, created a production ready kubernetes cluster for new clients and responsible for production deployments on GKE
- Developed infrastructure management code: secrets, authentication, user creation, data replication, backups, etc
- Developed utility/ingestion related backend services in python
- Streamlined infrastructure creation/management with terraform
- Developed internal admin tools for streaming replication between postgresql containers on kubernetes

### **Philips, Vancouver — Software DevOps Engineer**

Jan 2020 - Aug 2020

- Developed a serverless onboarding application in node.js/python/react on AWS Lambdas deployed via CI/CD pipeline to S3 buckets leading to streamlined onboarding process for new developers from 1 week down to 1 day
- Developed serverless lambdas in python/node.js to report Infrastructure state hence provided more observability and quicker response to issues that arise.

### **TeejLab, Vancouver — Software Engineer**

Oct 2018 - Jan 2019

- Developed backend APIs using Django to execute thousands of Public API endpoints from TeejLabs Knowledge Base and displayed results on a UI for quick testing by end users
- Worked on containerizing this process and utilizing multiprocessing in python to provide much faster results

### **Synopsis, Vancouver — Software Engineer**

May 2018 - Sept 2018

- Developed a large web scraping application in python to scrape the web for over 10,000 API endpoints in order to keep an up to date database of API endpoints to be used by Synopsis's BlackDuck security scanner
- Utilized Python Multiprocessing to speed up the web scraping process from days to hours. Used libraries BeautifulSoup, Requests, Selenium, etc

## Technical Projects

### **Employee Directory — UBC Capstone Project**

Jan 2021 - Apr 2021

- Responsible for planning and designing the backend and infrastructure
- Developed infrastructure code for a serverless application capable of configuring user authentication(AWS cognito), API gateway, S3, IAM

### **Netcat Multithreaded — UBC Project**

May 2018 - Sept 2018

- Developed a multithreaded chatting system in c similar to Netcat capable of handling multiple clients per server. Utilized Unix networking API/Threads

## Technical Skills

### **Proficient Languages**

Python, Ruby, Bash, React, Java, Javascript

### **Prior Experience with**

C, C++, Typescript, x86

### **Cloud**

CI/CD  
Pipelines/Automation  
Pipelines  
IAM/kubernetes RBAC  
Administering GKE  
clusters  
Infrastructure  
management: secrets,  
data replication,  
backups, alerts  
Docker images  
Container security  
Configured ELK stack on  
Kubernetes  
Terraform  
Ansible

### **Web Development**

React, Material UI

### **Databases**

Postgresql on  
kubernetes, streaming  
replication, backup  
strategies

### **Certifications**

CKA(in progress)  
Google Cloud DevOps(in  
progress)

## Education

### **University of British Columbia**

BSc. in Computer  
Science  
May 2021

## Extracurricular

### **Vancouver Coastal Health**

Volunteer(Visiting  
Seniors)  
Oct 2015 - Jul 2016