

Mohsin Khan

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Work Experience

Awesense, Vancouver — Software DevOps Engineer

Sept 2020 - 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, Bash, Java, Javascript, React

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

LFCS(in progress)
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