

Mohsin Khan

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Work Experience

Awesense, Vancouver — Software DevOps Engineer

Sept 2020 - Jan 2021, Oct 2021-Sept 2022

- Developed kubernetes CI/CD Pipelines capable of parallel builds on drone.io
- Developed multi-tenant environments on kubernetes, providing developers QA/Testing with isolated sandbox environments to speed up development
- Researched and planned development of a production ready kubernetes cluster for new clients. Optimized costs infrastructure cost by around 50%
- Developed code base for infrastructure management: secrets, authentication, user creation, data replication, backups, etc
- 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 serverless functions to report Infrastructure state to slack hence provided more observability and quicker response to issues that arise
- Developed a serverless onboarding application using react and AWS Lambdas. Deployed via CI/CD pipeline to S3 buckets. This application streamlined the process of onboarding new developers from 1 week down to less than a day

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 the 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

- Worked on a team of 8 to develop an Employee directory for Associated Engineering. 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, and semaphores

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, CSS

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