

Mohsin Khan

SOFTWARE ENGINEER — FULL STACK & DEVOPS

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WORK EXPERIENCE

Friendlier

Sept 2023 — July 2025

Software Engineer, Full Stack · Circular Economy Packaging

- Led the design and implementation of Friendlier API, a centralized backend platform enabling multiple applications to migrate off direct Firebase SDK access
- Designed a PostgreSQL relational data model from scratch using domain-driven design (DDD) to support packaging, logistics, orders, and operational workflows
- Designed and implemented RESTful APIs with consistent URL structures, HTTP semantics, and action-oriented endpoints
- Built a modular monolith backend in TypeScript, balancing extensibility with simplicity while avoiding premature microservices
- Built a two-layer validation system: external DTO validation for client requests and internal entity-level validation to enforce domain invariants before persistence
- Designed a centralized error handling framework with structured error codes, PostgreSQL error mapping, and environment-aware responses

Awesense

Sept 2020 — Dec 2022

Software DevOps Engineer · Sustainable Grid Energy, Vancouver

- Built multi-tenant sandbox environments on Kubernetes for development and QA, cutting QA/testing infrastructure cost by 90%
- Created CI/CD pipelines with parallel builds, improving developer quality of life
- Researched, planned, and ran production-ready Kubernetes clusters for new clients, owning production deployments on GKE
- Wrote infrastructure management code for secrets, authentication, user creation, data replication, and backups; streamlined provisioning with Terraform
- Built internal admin tools for streaming replication between PostgreSQL containers on Kubernetes

Philips

Jan 2020 — Aug 2020

Software DevOps Engineer Intern · Vancouver

- Built a serverless onboarding app (Node.js, Python, React on AWS Lambda, deployed to S3 via CI/CD) that cut new-developer onboarding from one week to one day
- Wrote serverless functions reporting infrastructure state, improving observability and response time to issues

TeejLab

Oct 2018 — Jan 2019

Software Engineer Intern · Vancouver

- Built Django backend APIs and parallelized execution with Python multiprocessing

Synopsis

May 2018 — Sept 2018

Software Engineer Intern · Vancouver

- Built Python web-scraping systems maintaining 10,000+ API endpoints for BlackDuck security tooling

TECHNICAL SKILLS

LANGUAGES

Typescript, Python, Bash, Java, React
Prior experience with C, C++, x86

CLOUD & INFRASTRUCTURE

- CI/CD and automation pipelines
- IAM / Kubernetes RBAC
- Administering GKE clusters
- Secrets, data replication, backups, alerting
- Docker images, container security
- ELK stack on Kubernetes
- Terraform, Ansible

WEB DEVELOPMENT

Vue, React

DATABASES

- Domain Driven Design
- PostgreSQL on Kubernetes, streaming replication, backup strategies

EDUCATION

University of British Columbia

BSc. in Computer Science
May 2021

CERTIFICATIONS

- Lonely Octopus AI (cert) — credsverse.com
- LFCS (in progress)
- CKA (in progress)

EXTRACURRICULAR

Vancouver Coastal Health

Volunteer, Visiting Seniors
Oct 2015 — Jul 2016