Mohsin Khan

SOFTWARE ENGINEER — FULL STACK & DEVOPS

Email mohsinak49@gmail.com
Website cloudshaykh.com
GitHub github.com/jibril101
LinkedIn linkedin.com/in/mohsin-khan

WORK EXPERIENCE

Muslimprofile
Feb 2026 — Present

Senior Software Engineer, Full Stack

- Owned the product end to end as sole engineer — from domain modeling and 38 recorded architecture decisions through implementation, testing, and deployment
- Designed the core access-control model for sharing a profile by link: open, expiring, and locked modes with a request, grant, and revoke workflow
- Built a typed REST API on Next.js, TypeScript, and PostgreSQL (Drizzle ORM), with the API contract generated straight from Zod schemas for a planned mobile client
- Enforced authorization in PostgreSQL Row-Level Security rather than application code alone, proven by a 12-test policy suite that runs with no application code in front
- Deployed and ran the service on Google Cloud (Cloud SQL, Cloud Run), with CI authenticating by workload identity federation instead of static keys

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, Cloud Run & Cloud SQL
- Secrets, data replication, backups, alerting
- Docker images, container security
- ELK stack on Kubernetes
- Terraform, Ansible

WEB DEVELOPMENT

Next.js, Vue, React

DATABASES

- Domain Driven Design
- Postgres Row-Level Security & access-control 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)