

MANVIR HEER

Vancouver, BC · manvirheer007@gmail.com · +1 (236) 688-5523 · LinkedIn · GitHub · Portfolio

SKILLS

Cloud & Orchestration: Kubernetes (Amazon EKS), Docker, Docker Compose, AWS, Azure

DevOps & CI/CD: GitHub Actions, Azure DevOps, Git

AI/ML & LLM Tooling: Amazon Bedrock, RAG Architecture, Qdrant, LlamaIndex, OpenAI API

Backend & Data: FastAPI, NestJS, REST APIs, Microservices, PostgreSQL, PgBouncer

Languages & Frontend: Python, TypeScript, SQL, Node.js, React, Next.js

EXPERIENCE

Tenzr Health

Vancouver, British Columbia

AI Infrastructure Developer (co-op, then full time)

May 2025 - Present

- Architected and deployed a production, HIPAA-compliant RAG platform on Kubernetes (Python/FastAPI, Qdrant vector DB) with LLM serving on AWS Bedrock and self-hosted models; owned the container orchestration, autoscaling, and rollout
- Evaluated build-versus-buy options, integration capabilities, and vendor lock-in; collaborated with colleagues on a company data-warehouse initiative
- Engineered PgBouncer connection pooling that reduced database connection time from 329ms to 2ms (99% improvement) and increased concurrent connection capacity by 458%, hardening backend services for scale
- Built and automated CI/CD pipelines with GitHub Actions for reproducible, per-service container deployments and continuous performance monitoring

A2P Energy Private Limited

Chandigarh, India

Full Stack Developer (International Co-op Program)

Sept 2024 - Dec 2024

- Optimized a marketplace platform through database query tuning and eager loading, reducing page load time from 20 to 2 seconds and improving throughput for concurrent users
- Developed a shift-logging system using NestJS and Next.js with role-based access control and a bilingual interface for industrial users

SaaSberry Innovation Labs

Port Moody, British Columbia

Junior Back-End Developer / Customer Success Analyst

Mar 2021 - Mar 2023

- Engineered 15+ internal automation scripts to streamline Azure cloud deployments, achieving a 40% reduction in deployment time and reducing manual toil for the delivery team
- Configured Azure B2C tenants and App Services for clients, ensuring stable, reproducible environments

PROJECTS

Tenzr Oracle, internal AI data platform

TypeScript, Python/FastAPI, Kubernetes, PostgreSQL

- Designed and shipped an internal AI “data oracle” that turns plain-English questions into governed SQL, charts, and insights, giving non-engineers self-serve analytics over the platform’s data
- Built a two-service microservice architecture (Next.js/TypeScript web + Python/FastAPI graph engine) deployed independently on Amazon EKS, with GitHub Actions CI/CD that path-filters and builds each service separately, pinned to commit SHA for reproducibility
- Engineered a semantic layer with CTE-based model composition and read-only query enforcement for safe data access, plus Claude tool-use over SSE streaming with cost controls, rate limiting, and token-usage tracking

EDUCATION

Simon Fraser University

Burnaby, British Columbia

Bachelor of Science - Computing Science

Requirements completed Sept 2026

Relevant coursework: Data Structures & Algorithms, Distributed Systems, Operating Systems, Databases

Ken Cople and International Summit Transfer Entrance Scholarship

Douglas College

New Westminster, British Columbia

Diploma Computer Studies and Information Systems - GPA: 3.71

Jan 2019 - Dec 2020

CERTIFICATES

AZ 900 - Microsoft Certified: Azure Fundamentals

Aug 2022