

Tanish Shah

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TECHNICAL SKILLS

Languages: Python, TypeScript, JavaScript, SQL, C#, PHP

Libraries/Frameworks: LangChain, FastAPI, React, Next.js, Node.js, Express, GraphQL (Apollo), .NET, Material UI

Cloud & Infra: Terraform, AWS (EventBridge, S3, EC2, Lambda, RDS, Cognito, API Gateway, Amplify, KMS, SQS, DynamoDB)

Developer & AI Tools: Git, Docker, Claude Code, Cursor, LiteLLM

Databases: PostgreSQL, MongoDB, Redis, Elasticsearch, ChromaDB, Snowflake

WORK EXPERIENCE

Software Developer, AI & Developer Tooling Team

June 2025 – Present

Neo Financial

Calgary, AB

- Architected a secure **MongoDB** pipeline using **Terraform**, **AWS EventBridge**, **S3**, and **EC2** to automate isolated transfer of 10TB sized database snapshots for internal teams to use production-like data
- Developed automated smoke testing suites across 70+ **GraphQL** microservices in **Docker**, drastically accelerating root-cause debugging time within ephemeral environments by 30%
- Built a **TypeScript** monorepo automating PII detection, field re-encryption, and data stripping across **MongoDB** snapshots for secure local development across users, banking accounts, transactions and merchants
- Provisioned **Datadog** monitors and log pipelines via **Terraform** for real-time failure alerting across automated database de-identification workflows
- Engineered an org-wide CLI distribution system wrapping **Claude Code** in **Bash**, enabling 300+ cross-functional employees to standardize and share custom AI skills, sub-agents and plugins
- Designed and deployed a RAG-powered internal search engine using **Python**, **LangChain**, and **Pgvector** over **Confluence** knowledge bases, reducing query response times by 40% for 100+ CX agents
- Automated secured credit account waiver processing with **TypeScript**, querying **Snowflake** metrics, evaluating fee eligibility, and executing **GraphQL** banking APIs or Jira escalations — saving 3 FTEs of manual effort

Full Stack Software Developer Co-op

Sep 2023 – Jan 2025

Operto Guest Technologies

Vancouver, BC

- Implemented single sign-on infrastructure using **AWS Cognito** and **API Gateway**, supporting responsive **React** + **Material UI** frontend and backend services to onboard property managers and hospitality business owners
- Engineered a low-latency serverless CRUD API using **TypeScript**, **AWS Lambda**, **DynamoDB**, and **Cognito**, maintaining a sub-300ms response time to manage session state and SSO app permissions
- Wrote **Python** Prefect migration scripts to onboard 30,000+ customer accounts to onboard users to new authentication flow
- Maintained and enhanced **.NET** and **PHP** backend services for reservation, property, and guest management systems

AI Software Developer Co-op

Dec 2023 – Feb 2024

Boardspace

Remote

- Developed a **Python** RAG chatbot using **LangChain**, **ChromaDB**, and **OpenAI** embeddings to query 150+ PDF documents for non-profit users
- Containerized **FastAPI** services with **Docker** and deployed them on **AWS EC2**

Full Stack Software Developer Co-op

Jan – Apr 2023

Health Canada

Remote

- Refactored 85% of a legacy **React** + **Express.js** application to **TypeScript**, improving code maintainability while accelerating data retrieval by 23% via optimized **Elasticsearch** queries
- Engineered a **Next.js** administration portal to streamline role-based access control and employee permissions across 150+ partner organizations via secure **REST** endpoints
- Expanded automated test coverage to 80% using **Jest**, preventing production regressions across core data processing components

EDUCATION

Simon Fraser University

Bachelor of Science in Data Science

Burnaby, BC

May 2025