

Aaryan Patel

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EDUCATION

University of Waterloo

Bachelor of Computer Science

- Artificial Intelligence Specialization

Waterloo, ON

June 2027

TECHNICAL SKILLS

Languages: C/C++, JavaScript/TypeScript, SQL (Postgres), Java, Scala, Python, Bash

Databases/Frameworks: .NET, FastAPI, Node.js, Fastify, Express, Mongo, Redis, Next.js, Redux

DevOps: Git, Docker, Kubernetes, Terraform, Jenkins, GitHub Actions, SonarQube, Ansible

Certifications: Google Cloud Certified Associate Cloud Engineer, AWS Certified Cloud Practitioner

EXPERIENCE

DevOps Engineer Intern

Sep. 2025 – Dec. 2025

RBC Capital Markets

Toronto, ON

- Engineered a **multi-cloud deployment architecture** for distributed app across Azure and AWS clusters by using **GitHub Actions** pipelines and **Helm charts** to orchestrate the build and release of 3 Dockerized microservices
- Accelerated container security scanning speeds by over 77%** for Capital Markets teams by migrating legacy scanning protocols to Aqua SaaS Cloud, significantly reducing **Jenkins CI/CD pipeline latency**
- Enabled verification of Docker image signatures** for an application by provisioning Virtual Machines with custom **CA bundles**, ensuring only trusted code runs in production

Backend Developer

May 2025 – Aug 2025

Scrawlr

Vancouver, BC

- Contributed to scalable backend APIs** for browser-extension platform, using Node.js + Fastify with Postgres and Redis to layer real-time conversation and personalized content onto any webpage
- Standardized codebase by **authoring reusable Cursor rules** that enforce layered architecture, uniform error handling, and code consistency, enabling faster, conflict-free feature rollouts across teams
- Architected an AI-driven code-gen pipeline** that ingests product docs & Cursor rules to auto-scaffold Fastify services, database schemas, cache layers, and Vitest tests, **cutting API development from months to days**

Software Engineer Intern

Sep. 2024 – Dec. 2024

RBC Capital Markets

Toronto, ON

- Developed a multi-asset trading analytics platform using **Next.js**, **React**, and **MongoDB**, on **Kubernetes**, integrating **AI-driven trade reports** enhance market prediction capabilities for traders
- Optimized client-side data handling** for datasets exceeding 20,000 rows by implementing **Redux** and **TanStack Query**, reducing API call latency by **40%** through aggressive caching and state management strategies
- Engineered high-performance visualization modules** (including FX Liquidity Matrix) using **Highcharts**, **AG Grid**, and **React Virtualized**, improving rendering speeds by **35%** via DOM virtualization

Junior Software Developer

May 2023 – Aug. 2023

JANA Corporation

Aurora, ON

- Developed backend services** for a pipeline integrity management application using **C#**, **ASP.NET**, and **SQL Server**, implementing the data processing logic for predictive risk analysis and visualization features
- Boosted API performance by up to 50%** by refactoring endpoints to utilize native high-performance serialization libraries, significantly reducing latency and payload overhead
- Optimized data retrieval efficiency** for RESTful services by restructuring complex **SQL queries** and stored procedures, ensuring faster dynamic data fetching for downstream application

PROJECTS

UW Data Science Club | *Next.js*, *Express.js*, *GitHub Actions*, *PostgreSQL*

- Led team of 8+ developers** across stack, enforcing CI rules and coding standards to ensure high code quality
- Architected CI/CD with **quality gates**, centralized **secret management**, and **agentic pipeline** for docs syncing
- Spearheaded adoption of **monorepo architecture** to unify shared UI, enforce consistency, and centralize CI/CD
- Engineered a **normalized, indexed PostgreSQL** database supporting **500+ members and 25+ events**
- Redesigned API architecture** with layered structure for improved modularity, maintainability, and scalability