

# 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, 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, BC

- 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