

# Aaryan Patel

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## EDUCATION

### University of Waterloo

Bachelor of Computer Science, Minor in Economics

- Artificial Intelligence Specialization

Waterloo, ON

June 2027

## TECHNICAL SKILLS

**Languages:** C/C++, TypeScript, SQL (Postgres), Java, Python

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

**DevOps:** Git, Docker, Kubernetes, CircleCI, Terraform, Jenkins, GitHub Actions

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

## EXPERIENCE

### 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

- Worked on building a multi-asset trading analytics platform using React, Next.js, Kubernetes, and MongoDB, leveraging AI-driven trade reports enhance market predictions and decision-making for traders
- Utilized Redux for state management and TanStack Query for API integration and caching, reducing API call latency by 40% and ensuring real-time updates for datasets exceeding 20K rows
- Introduced interactive Liquidity Matrix feature to analyzes & visualizes FX market liquidity across 24 trading hours, providing actionable insights with an interactive and concise interface to improve trading decisions
- Leveraged Highcharts, AG Grid, and React Virtualized to improve index analytics performance by 35% with dynamic visualizations & auto-complete filtering, delivering a seamless user experience

### Application Developer

Jan. 2024 – May 2024

CGI Inc.

Toronto, ON

- Specialized in building and managing cloud-based API ecosystems using Google Cloud Platform as well as deploying, monitoring, and managing enterprise solutions on the cloud
- Designed and deployed a PostgreSQL database integrated with Keycloak, streamlining authentication process
- Leveraged Terraform to automate infrastructure provisioning, which optimized deployment time by up to 70%, significant enhancing operational efficiency

### Junior Software Developer

May 2023 – Aug. 2023

JANA Corporation

Aurora, ON

- Developed backend solutions using C#, ASP.NET, and SQL Server, contributing to the architecture, implementation, and maintenance of pipeline integrity management application
- Optimized SQL queries to enhance the performance of REST API, which improved dynamic data fetching
- Introduced new visualization feature that displayed risk level results for predictive risk analysis, aiding in better decision-making for pipeline integrity management
- Led migration of APIs to a high-performance serialization library, boosting API performance by up to 50%

## 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