

# 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 analyze & visualize 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%**, significantly 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, PostgreSQL*

- Led team of 8+ developers** across stack, enforcing CI rules and coding standards to ensure high code quality
- 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
- Built a **component-driven UI system** with to standardize design patterns & accelerate frontend development