

# Aaryan Patel

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## EDUCATION

### University of Waterloo

*Bachelor of Computer Science, Minor in Economics*

- Artificial Intelligence Specialization

Waterloo, ON

*June 2027*

## EXPERIENCE

### QTS Software Developer Intern

Sep. 2024 – Dec. 2024

*RBC Capital Markets*

*Toronto, ON*

- Full-stack development of a cutting-edge trading analytics platform using **Next.js**, **Kubernetes**, and **Nest.js**, leveraging **Redux** and **React Query** for state management and Python for AI-driven smart portfolios
- Implemented **4+ API integrations** to generate and visualize analytical data, supporting **PDF & Excel export functionality**, streamlining data sharing and enhancing traders' decision-making workflows
- Introduced a new **Liquidity Matrix** feature that **analyzes & visualizes** foreign exchange market liquidity at various trading hours, improving actionable insights with an **interactive and concise interface**
- Enhanced user experience and market insights by implementing **autocomplete filtering** and **designing tool tips** for improved accessibility and clarity in dynamic trading scenarios

### 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
- Led the optimization of SQL queries, significantly enhancing the performance of the data management **REST API**, which improved **dynamic data retrieval** and display
- Introduced new visualization feature that displayed risk level results for **predictive risk analysis**, aiding in better decision-making for pipeline integrity management
- Lead migration of APIs to a **high-performance serialization library**, boosting API performance by up to **50%**

## PROJECTS

### CraftsByAash | *Django, MySQL, Next.js, Stripe, Docker, AWS*

Oct. 2024 – Nov. 2024

- Full-stack **ecommerce** web platform with **Stripe** integration for secure payment processing
- Using **JWTs** to handle account creation, login, and session management, ensuring safe & reliable user interaction
- Creating responsive UI with Next.js, leveraging **AWS S3 and CDN** for fast media delivery and smooth browsing
- Containerizing application with **Docker** for consistent environments, enabling efficient deployment and scaling

### P.E.P.P.E.R. | *Next.js, Tailwind CSS, Cloud Functions, Python*

Jan. 2024

- Compassionate **conversation chat bot** deployed as a **full-stack** web app for **DeltaHacks X Hackathon**
- Crafted humanized responses to user prompts using **OpenAI** as if it were another human talking to user
- Designed to alleviate loneliness among elderly and patients experiencing social isolation

## CERTIFICATIONS

### AWS Certified Cloud Practitioner

May 2024 – May 2027

### Google Cloud Certified Associate Cloud Engineer

Mar. 2024 – Mar. 2027

## TECHNICAL SKILLS

**Languages:** C/C++, C#, Python, SQL, JavaScript, TypeScript, Java, HTML5/CSS3

**Frameworks:** ASP.NET, Entity Framework, Django, Next.js, Angular, Node.js, Nest.js, MongoDB

**DevOps:** Git, Docker, Google Cloud, AWS, Kubernetes, Terraform, Jenkins CI/CD, Postman

**Libraries:** React, React Query, Redux, pandas, NumPy, OpenAI