Aaryan Patel

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EDUCATION

University of Waterloo — Waterloo, ON
Bachelor of Computer Science, Minor in Economics — *June 2027*
- Artificial Intelligence Specialization

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, Kuberentes**, and **Nest.js**, leveraging **Redux** and **React Query** for state management and Python for AI-driven smart portfolios
- Implemented **6+ 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 integrating **Bloomberg Terminal** to expanded data sources 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%**, 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
- 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