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

Software Developer Intern   Sep. 2024 – Dec. 2024
RBC Capital Markets   *Toronto, ON*
- Developed full-stack trading analytics platform using **React, Next.js, Kuberentes**, and **MongoDB**, leveraging **AI-driven trade reports** enhance market predictions and decision-making for traders
- Utilized **Redux** for state management and **React Query** for API integration and caching, reducing API call latency by **40%** and ensuring real-time updates for **datasets exceeding 20K rows**.
- Introduced an 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
- 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