SHIV PATEL

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Education

Double Degree   **2022 - 2027**

- Bachelor of Computer Science, University of Waterloo
- Bachelor of Business Administration, Wilfrid Laurier University

Work Experience

KPMG   **Jan 2025 – Present**
Software Engineer   *Toronto, ON*

- Modernized two core enterprise **Azure** solutions by upgrading **Node.js** from v16 to v22 across C# and Vue.js stacks, improving build times by 20% and reducing technical debt.
- Spearheaded the development of a dynamic exception reporting system for high-volume asset managetment clients, automating Excel report generation via **C#**, **Dapper**, and **SQL Server**, reducing manual effort by 70%.
- Designed and implemented backend logic leveraging **Azure Functions** and **Blob Storage** with a responsive **Vue.js** front-end to transform fund-level data from **SQL** stored procedures into client-ready financial deliverables.
- Coordinated among 20 developers in an Agile environment using **Git** and **Azure DevOps** for version control.

CIBC Capital Markets   **Jan 2024 – Apr 2024**
Software Developer   *Toronto, ON*

- Architected a **REST API** tool using **jsTree**, **Angular**, and **Node.js** to execute **SQL** queries. Tested the API using **Postman**. Integrated Microsoft AD for authentication and authorization, facilitating unlimited user scalability compared to a previous limitation of 200 users.
- Spearheaded the development of an Excel macro using **Visual Basic** to handle API calls and **convert JSON responses** to Excel arrays. Macro was adopted department-wide and decreased report generation time by 50%.
- Programmed a full-stack **Java** application with integrated **WebSockets** and **MS SQL Server** drivers to maintain organizational unit hierarchies and update daily PnL data, reducing operational risk and saving 30 minutes per update.

Haleon (GlaxoSmithKline)   **May 2023 – Aug 2023**
Data & Business Intelligence Analyst   *Mississauga, ON*

- Performed price elasticity **regression analysis** and customer segmentation through **k-means clustering** using **scikit-learn**, **xgboost** and **Python**, thereby identifying optimal price points for key SKUs, and driving incremental net revenue for the Advil brand by 8.3%.
- Implemented an **Azure Data Factory** pipeline with **CI/CD** infrastructure. Automated **ETL** processes to deliver point of sale data from 12 major retail customers to Power BI, resulting in a 75% reduction in time spent on manual updates.

Ontario Soccer   **May 2022 – Present**
Referee   *Waterloo, ON*

- Enforced the Laws of the Game with high attention to detail and consistency by exercising transparent communication, leadership, and conflict management techniques in Canada's semi-professional league, League1 Ontario.

Projects

Referee TraA.I.ner   **React.js | MongoDB | JavaScript**

* Developing an intuitive **React.js** chatbot application tailored to help new soccer referees develop by providing in-depth knowledge of the Laws of the Game and by explaining the correct call for subjective game scenarios.

Multiplayer Chess   **C++ | OOP | QA**

* Built a chess game with four A.I. difficulty levels. Implemented MVC, design patterns, and RAII for efficient development.

Skills

Languages: Python, JavaScript, C#, C++, SQL, Java, HTML5/CSS, Racket, Visual Basic, R
Libraries/Frameworks: scikit-learn, NumPy, pandas, React.js, Vue.js, Node.js, Angular
Tools: Git, Azure DevOps, Azure Data Factory, Bash, Unix, REST APIs, Postman, Docker, MongoDB