

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

- Working with C#, .Net, SQL, Vue.js, and Node.js

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 Analyst & Business Intelligence Manager

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.
- Coordinated among an **Agile team** using **Git**, while thoroughly documenting all projects.

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

ReactJS | MongoDB | NodeJS

- * Developing an intuitive **React.js** 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.
- * Integrating **Auth0** for authentication and **MongoDB** for the database.
- * Engineering a chat bot solution leveraging **Node.js** and the **OpenAI Assistants API**.

Multiplayer Chess

C++ | OOP | QA

- * Built a multi-player **C++** chess game with a command-line interface and **X11 graphics** with four AI difficulty levels.
- * Implemented OOP practices such as polymorphism, MVC, design patterns, and RAII for efficient development.
- * Authored both **black and white-box unit tests** to minimize bugs and assure quality of the game.

Technical Skills

Languages: Python, JavaScript, C, C/C++, SQL, Java, HTML5/CSS, Racket, Visual Basic, R

Libraries: scikit-learn, NumPy, pandas, React.js, Vue.js, Node.js, Angular

Tools: Git, Azure DevOps, Azure Data Factory, Bash, Unix, REST APIs, WebSockets, Postman, Docker, MongoDB