Shiv Patel

📞 647 575-2970　✉ pate9950@mylaurier.ca　🔗 LinkedIn　⦿ Github　💼 shiv-patel.com

Education

Double Degree **2022 - 2027**

- Bachelor of Computer Science, University of Waterloo
  - ∗ <u>Relevant Coursework:</u> Algorithm Design, Object-Oriented Software Development, Data Structures
- Bachelor of Business Administration, Wilfrid Laurier University

Work Experience

CIBC Capital Markets **Jan 2024 – Apr 2024**
System Analyst *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 support for **CI/CD**. 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.
- Developed a **Power BI** dashboard using **SQL** and **DAX expressions** to track changes in product consumption across different time periods and monitor out-of-stock incidents, facilitating an increase in sales productivity.
- Coordinated an **Agile team** using **Jira** and **Git** and throughly documented all projects.

Ontario Soccer **May 2022 – Present**
District 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.

Projects

Referee TraA.I.ner **ReactJS | MongoDB | NodeJS**

- ∗ Developing an intuitive **ReactJS** 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 **NodeJS** 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.
- ∗ Developed a UML diagram to efficiently plan class relationships. Used Git and GitHub for streamlined version control.

Technical Skills

Languages: Python, JavaScript, C/C++, SQL, Java, HTML5/CSS, Racket, Visual Basic, R
Cloud Services/Libraries: Azure Blob, Azure Data Factory, scikit-learn, NumPy, pandas, React.js, Node.js, Angular
Developer Tools: Git, Bash, Unix, REST APIs, WebSockets, Postman, Jira, Power BI, Docker, VS Code, MongoDB