Shiv Patel

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EDUCATION

University of Waterloo   Waterloo, ON, Canada
Bachelor of Science in Computer Science   *Sep. 2022 – May 2027*

EXPERIENCE

PepsiCo   Jan. 2026 – Present
Data Analyst Intern   *Toronto, ON*
- Robotics Process Automation and Analytics Team

KPMG   Jan. 2025 – Apr. 2025
Software Engineer Intern   *Toronto, ON*
- Modernized two enterprise **Azure** solutions by upgrading **Node.js** from v16 to v22 across C# and Vue.js stacks, improving build times and reducing technical debt.
- Built scalable, secure **REST API** endpoints using **C#**, **.NET** and **SQL Server** to automate tax exception reporting, saving 800+ hours annually while handling sensitive financial data.
- Designed backend logic leveraging **Azure Functions** and **Blob Storage** with a **Vue.js** front-end to transform **SQL** fund-level data into client-ready financial deliverables, improving data reliability and auditability.
- 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 Intern   *Toronto, ON*
- Architected a **REST API** tool using **Angular** and **Node.js** for **SQL** query execution. Integrated Azure AD for scalable authentication and authorization beyond 200 original users, and tested with **Postman**.
- Developed a **VBA** Excel Macro to handle API calls and parse **JSON** to arrays. Macro cut report generation time by 50% and was adopted by 100+ users across the department.
- Programmed a full-stack **Java** application with **WebSockets** and **SQL Server** drivers to maintain trade book linkages and update daily profit/loss data, reducing operational risk and saving 30 minutes per update.

Haleon   May. 2023 – Aug. 2023
Data Analyst Intern   *Toronto, ON*
- Performed price elasticity and customer segmentation analysis using **scikit-learn**, **xgboost** and **Python** to identify optimal price points for key SKUs, boosting 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 businesses to Power BI, resulting in a 75% reduction in stock-outs and overall improvement in sales team productivity.

PROJECTS

Referee TraA.I.ner | *React, JavaScript, OpenAI API, MongoDB* 🎧
- Developing an intuitive 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. levels. Implemented MVC, design patterns, and RAII for efficient development.
- Authored both **black and white-box unit tests** to minimize bugs and improve game quality.

F1 Performance Analysis | *R, OpenF1 API, Regression Models* 🎧 🔗
- Built and evaluated multivariate linear regression models in R to analyze Formula 1 race outcomes using qualifying results, team performance, and weather conditions, including feature engineering and multicollinearity analysis

Semi-Professional Soccer Referee   May 2022 - Present
- Officiating Canadian semi-professional matches (League1 Ontario/USL 2), demonstrating high attention to detail, rapid decision-making, and clear communication in fast-paced, high pressure environments.

TECHNICAL SKILLS

Languages: Python, Java, JavaScript, C++, C#, VBA, HTML/CSS, R, SQL
Libraries/Frameworks: scikit-learn, NumPy, pandas, React.js, Vue.js, Angular, Node.js, .NET
Tools: Git, Azure Cloud Platform, CI/CD, Bash, Unix, REST APIs, Postman, Docker, MongoDB, VS Code