

Vivek Jariwala

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EDUCATION

Western University and Ivey Business School

London, ON, Canada

Software Engineering (BESc) and Honours Business Administration (HBA)

Expected April 2026

- **Coursework:** Algorithms and Data Structures (Java), Web Development (React, JavaScript, AWS, MongoDB), Databases (SQL, MySQL), Object-Oriented Programming (Java), Software Construction (Python), Software Requirements (Jira, Confluence).

TECHNICAL SKILLS

Languages: Python, Java, JavaScript, TypeScript, SQL, NoSQL, C#, HTML, CSS, Bash.

Technologies: React, Angular, Node.js, Express.js, MongoDB, PostgreSQL, Snowflake, Linux, AWS, Azure AI, ASP. NET.

Certificates: The Complete SQL Bootcamp, Cloud Computing: Core Concepts, The MEAN Stack.

WORK EXPERIENCE

Bond Brand Loyalty

Toronto, ON, Canada

Software Engineering Intern

May 2024 – August 2024

- Improved pricing strategies for a \$25B client by engineering a competitive insights tool with custom computer vision, OCR, and NLP algorithms to identify competitor deals, built with **Python, Snowflake, SQL, Streamlit**, and **Azure AI Services**.
- Optimized machine learning workflows for 250+ employees by automating key processes like feature selection and model optimization using **Python, Scikit-learn**, and **Snowpark**, deploying these solutions in a **Snowflake Native Application**.
- Transformed creative process for 50+ employees by designing an AI brainstorming tool, integrating **ChatGPT, Dall-E**, and a 75,000+ ad-dataset to generate tailored ad campaigns and suggest similar campaigns using **Azure OpenAI Embeddings**.
- Reduced annual expenses by \$40,000 for survey responses from international markets by designing an AI translation tool using **Python, Streamlit**, and **Azure AI Translator**, vertically integrating the translation workflow to improve operational efficiency.

Elim Solutions

Markham, ON, Canada

Software Developer Intern

May 2023 – August 2023

- Collaborated effectively in cross-functional teams using **Agile** methodologies to integrate the cloud ERP system, **NetSuite**, with e-commerce platforms for various clients, successfully resolving 50+ **Jira** tickets across both frontend and backend tasks.
- Spearheaded the end-to-end full stack development of an employee feedback application for an IT consulting company, leveraging **Angular, Node.js, Express.js, MongoDB**, and **AWS**, now widely adopted across a 30-person workforce.
- Improved user engagement and website functionality by implementing 15+ dynamic webpage elements from user interface mock-ups, using **HTML, CSS, NetSuite**, and **TypeScript**, for a grocery store e-commerce website with 50,000+ monthly visitors.

The Buckmaster Institute

Vancouver, BC, Canada

Software Developer Intern

May 2022 – August 2022

- Boosted image recognition accuracy by 87% in an ongoing research project as the lead developer, implementing advanced image recognition techniques using **Python, OpenCV, Pandas, NumPy**, and **Scikit-learn**, achieving a 95% accuracy rate overall.
- Reduced manual labour hours by 11% by developing a **Python** script to process, analyze, and load over 25,000 complex data points into CSV files, automating critical data cross-validation processes to improve the overall efficiency of the research project.

LEADERSHIP EXPERIENCE

Ivey Technology Club, Co-President

April 2024 – Present

- Directed the largest technology-focused club at Ivey Business School, managing a budget of over \$5000 and leading a team of 18 executives to organize mentorship programs, hackathons, speaker panels, and firm trips for a community of over 250 members.
- Initiated and organized Ivey's first "Breaking Into Tech Conference," drawing over 150 attendees, securing three corporate sponsors, and hosting workshops on software engineering, product management, technology consulting, and business analytics.

Western AI, Senior Director of Projects

September 2022 – April 2024

- Led and mentored three teams, coordinating 18 software developers to build AI projects in machine learning, computer vision, and generative AI, resulting in all teams being invited to present at CUCAI, Canada's largest undergraduate AI conference.
- Developed a time series forecasting model using **Python, XGBoost, Jupyter Notebook**, and linear regression, implementing advanced data preprocessing and feature engineering on 900,000+ data entries to generate sales forecasts with 99% R^2 accuracy.

PROJECTS

Bond Brand Loyalty Machine Learning Challenge (1st Place Overall) – GitHub

- Secured the top position in a company-wide hackathon by building the most accurate predictive model for purchasing customers.
- Implemented a multi-armed bandit approach with advanced feature engineering, hyperparameter tuning, and a custom-built preprocessing pipeline to optimize the data using **Python, Jupyter Notebook, TensorFlow, Scikit-learn, Seaborn**, and **Pandas**.