

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 June 2026

- **Coursework:** Algorithms and Data Structures, Databases, Operating Systems, Networking, Object-Oriented Programming.
- **Awards:** \$32,000 in merit-based scholarships and awards, 1st Place in AWS Hack the Agent Hackathon (2025), 1st Place in McDonald's Innovation Case Competition (2024), 1st Place in Bond Brand Loyalty Machine Learning Challenge (2024).

TECHNICAL SKILLS

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

Technologies: React, Angular, MongoDB, PostgreSQL, Snowflake, Spring Boot, Flask, AWS, Azure, Docker, Kubernetes, Git.

WORK EXPERIENCE

Amazon Web Services

Toronto, ON, Canada

Solutions Architect Intern

May 2025 – August 2025

- Engineered a generative AI analytics platform using **React**, **TypeScript**, and **Spring Boot (Java)**, enabling **Bedrock Agents** to extract insights and generate visualizations from raw datasets, reducing time-to-insight by 80% vs. traditional BI workflows.
- Designed entire system architecture with 10+ **AWS services (EC2, S3, CloudFront, etc.)** for global content delivery, server deployment, authentication, and data compliance, cutting infrastructure costs by 35% through caching and compute optimization.
- Architected a serverless workflow using **AWS Lambda**, **Amazon Bedrock**, and **Lambda layers** to power dynamic, low-latency generation of high-resolution visualizations and Python scripts, achieving 99.95% uptime and sub-5 second response times.
- Developed an outbound internal communications system using **React**, **Flask (Python)**, **Next.js**, **TypeScript**, and **AWS Amplify**, standardizing personalized messaging across 150+ customer accounts and reducing manual preparation time by 85%.

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**.

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**, **MongoDB**, and **Amazon EC2**, now widely adopted across a 30-person workforce.
- Increased user engagement and website functionality by implementing 15+ dynamic webpage components from UI/UX 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**, and **Scikit-learn**, achieving a 95% accuracy rate across all test cases.
- 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

September 2023 – April 2025

- Directed the largest technology-focused club at Ivey Business School, managing a budget of \$30,000 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.

PROJECTS

AWS Hack the Agent Hackathon (1st Place Overall) – [GitHub](#) – [Demo](#)

- Accelerated promotion documentation process from weeks to minutes by building an application with **React** and **Flask** that utilizes **Atlas Core Agents** to synthesize data from enterprise tools (Salesforce, Quip, Marshal) and generate personalized reports.