

Jaspreet Sahota . Jarvis Consulting

I am a Computer Engineering graduate with hands-on experience in software quality assurance, business analysis, and full-stack development. I've had the opportunity to work on various projects in my previous roles, where I learned the importance of collaboration, curiosity, and clear communication in building effective solutions. I'm passionate about technology because it constantly evolves and challenges me to think creatively. What drives me most is finding ways to simplify complex problems, improve processes, and keep learning along the way.

Skills

Proficient: Java, SQL/RDBMS, Git & Version Control, Requirement Analysis & Documentation, Agile/Scrum Methodology, Software Testing (Manual & Automated), Accessibility Testing (WCAG), Jira, Balsamiq (wireframing/mockups), Figma

Competent: Python, C, C++, Docker, React.js, Django/Node.js, Tableau, Power BI, Performance Testing (JMeter)

Familiar: HTML/CSS/Javascript, AWS, API Testing (Postman/REST), Object-Oriented Programming, Machine Learning

Jarvis Projects

Project source code: https://github.com/jarviscanada/jarvis_data_eng_JaspreetSahota

Linux Cluster Monitoring Agent [GitHub]: Developed a Linux Cluster Monitoring Agent using Bash to track CPU, memory, and disk usage across multiple Linux nodes, storing data in a PostgreSQL database. Implemented containerization with Docker, automation via crontab, and version control through Git, ensuring scalable performance monitoring. Tested scripts using psql and manual validation to verify accurate data collection and reliability. Deployed the solution in a Dockerized environment for consistent and automated system monitoring.

Highlighted Projects

LocaLens: A Tourist Recommender System [GitHub]: Developed a social-network-based tourist recommender system in Python and React.js featuring a monolithic REST architecture; implemented machine learning models using Random Forest for non-real-time predictions and reinforcement learning with web scraping for real-time updates; tested with Postman and PyTest and deployed on a publicly accessible web platform.

Professional Experiences

Business Systems Analyst, Jarvis (October 2025-present): Participated in a full-time Agile training program simulating real-world business system projects, contributing as a Business Systems Analyst through sprint planning, requirement analysis, and project delivery using Scrum methodologies.

Senior Program Officer, Health Canada (September 2024-June 2025): Managed end-to-end program delivery by coordinating project timelines, aligning cross-functional stakeholders, and monitoring deliverables to ensure on-time execution. Conducted business analysis by gathering, refining, and documenting requirements to inform solution design and implementation. Led sprint testing cycles, working closely with developers to validate features, identify defects early, and ensure alignment with business needs. Facilitated user acceptance testing (UAT) by organizing test planning sessions, supporting execution, and collecting user feedback to confirm solution readiness.

Software Quality Assurance Analyst, Environment & Climate Change Canada (May 2022-May 2024): Liaised regularly with stakeholders including clients, project managers, and developers to ensure clear communication of testing results and priorities, contributing to effective decision making and timely project delivery. Designed 500+ test cases across 15 applications for functional, regression, performance, automation and accessibility testing. Automated test cases using Selenium with Python, reducing manual testing by 30% and increasing efficiency. Created detailed test summary reports to support clear communication with clients, developers, and project managers. Reduced defects and improved release quality through rigorous testing and robust API validation.

University Advancement Assistant, Toronto Metropolitan University (May 2021-August 2021): Automated removal of 1500+ near-duplicate Excel entries using Python, improving data accuracy and workflow efficiency. Supported data migration from Agilon to Salesforce, ensuring integrity and consistency. Leveraged SQL and SAP Crystal Reports to consolidate data from two databases, streamlining reporting. Introduced process improvements that boosted data accuracy and efficiency by 20%.

Education

Toronto Metropolitan University (2018-2024), Bachelor of Engineering in Computer Engineering, Electrical and Computer Engineering, Faculty of Engineering and Architectural Science - Aileen Clark Lambie Award (2024): This is awarded to a second, third, or fourth-year female engineering student who has made a notable contribution to women in engineering activities in the Faculty of Engineering and Architectural Science at TMU. - Dean's List (2023, 2024) - Specialization - Software Engineering Stream

Miscellaneous

- Currently Pursuing Certified Associate in Project Management (CAPM) through the Project Management Institute
- Co-Chair of the George Vari Innovation Conference at TMU | November 2023-March 2024
- President of Toronto Metropolitan Women in Engineering Society | April 2023-May 2024
- Executive Advisor of IEEE Computer Society Toronto Metropolitan Chapter | April 2023-May 2024
- Chair of IEEE Computer Society Toronto Metropolitan Chapter | May 2022-April 2023
- VP Marketing of Toronto Metropolitan Women in Engineering Society | May 2021-April 2023
- VP Marketing of IEEE Computer Society Toronto Metropolitan Chapter | June 2021-May 2022
- Event & Portrait Photography
- Hiking