

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 aligning cross-functional teams, tracking milestones, and ensuring on-time execution. Gathered and documented business requirements to guide solution design and implementation. Led sprint and user acceptance testing (UAT) to validate features, identify defects early, and confirm solution readiness through close collaboration with developers and stakeholders.

Software Quality Assurance Analyst, Environment & Climate Change Canada (May 2022-May 2024): Collaborated with clients, project managers, and developers to communicate testing results and priorities, ensuring timely delivery and informed decisions. Designed and executed 500+ test cases across 15 applications, covering functional, regression, performance, automation, and accessibility testing. Automated workflows using Selenium with Python, cutting manual effort by 30% and improving release quality through API validation and detailed reporting.

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): Awarded to a female engineering student who made a notable contribution to women in engineering activities 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
- President, TMU Women in Engineering - Launched TMU's first Women in Engineering Conference; secured \$25K+ sponsorships and led 35-member team.
- Co-Chair, George Vari Innovation Conference - Rebooted TMU's largest tech and innovation event with 600+ delegates and new sponsor partnerships.
- Executive Advisor, IEEE Computer Society TMU - Mentored 2024 team and guided event strategy and chapter operations.
- Chair, IEEE Computer Society TMU - Led 10+ workshops and networking events, boosting student engagement.
- VP Marketing, TMU Women in Engineering - Rebranded outreach, increasing participation by 40%.
- VP Marketing, IEEE Computer Society TMU - Led promotions and collaborations to expand chapter reach.
- Event & Portrait Photography
- Hiking