# VRAJ PATEL

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## EDUCATION

**McMaster University, GPA: 3.80**                                        Hamilton, ON
*B.A.Sc Computer Science, CO-OP*                                   *Expected May 2026*
**Relevant Courses**: Programming (**Python, Java, C**), Software Development (**Design Patterns/Principles, UML**), **Data Structures** & **Algorithms**, Databases (**SQL**), Web Programming, **Machine Learning Applications**

## SKILLS

**Languages**: Java, Python, SQL, C, JavaScript, TypeScript HTML/CSS, Haskell, Elm
**Cloud & DevOps**: AWS (CloudWatch, Lambda, S3, Athena, QuickSight, CDK), Docker, MS Azure
**Developer Tools**: Git, Jenkins, Jira, Asana, MongoDB, Postman, SSMS
**Libraries/Frameworks**: Spring Boot, React.js, Express.js, JUnit, Pandas, NumPy, Matplotlib, Mockito

## EXPERIENCE

**Snowflake**                                             September 2025 - December 2025
*Software Engineer Intern*                                               *Toronto, ON*
- Implemented core backend functionality for Declarative Sharing, building **Java** + **SQL** services to automate cross-account sharing of database objects, reducing customer setup time by **70%**
- Engineered support for sharing Semantic Views, enabling AI-ready data consumption across organizations and driving a **40% increase** in Declarative Sharing adoption during public preview
- Developed end-to-end **Python system tests** for Snowflake data applications, covering **5+** Declarative Sharing workflows, executed weekly via **Jenkins** against production accounts to detect issues early and prevent regressions

**Amazon**                                                     May 2025 - August 2025
*Software Development Engineer Intern*                                  *Vancouver, BC*
- Designed and implemented a **CloudWatch anomaly detection** + **QuickSight dashboard**, tracking **20,000+ metrics** across **400+ fulfillment centers** to detect system issues faster
- Developed **AWS Lambdas (Java)** with **SQL** + **JUnit**, deployed via **AWS CDK (TypeScript)**, and stored anomaly bands & metric data in **S3/Athena** for persistent monitoring
- Created the project's **high-level design (HLD)** and worked with PM to define **key operational metrics**, reducing **mitigation time** during severity events

**McMaster University** | *COMPSCI 1JC3 Teaching Assistant*        January 2025 - April 2025
- Led weekly tutorials for **25+ students**, focusing on **Haskell** for COMPSCI 1JC3 (**Functional Programming**)
- Guided students through **40+ Haskell exercises** and **functional programming** concepts

**PointClickCare**                                              May 2024 - August 2024
*Software Engineer Intern*                                               *Toronto, ON*
- Engineered scalable **RESTful APIs** using **Java** and **Spring Boot** to store and manage real-world data effectively across over **1.4 million** active patients and **26,000+** healthcare facilities
- Collaborated with a team to develop **APIs** that provided de-identified protected health information (PHI) to **15+** medical companies for medical research in senior care
- Thrived in an **Agile** environment, participated in scrum meetings and consistently achieved sprint goals
- Ensured **85% code coverage** with unit tests, identifying errors to maintain code quality before deployment

## PROJECTS

**MES Event Management System** | *React.js, Express.js, MongoDB, GitHub*      September 2024 - April 2025
- Led the **Full Stack** development of a centralized platform for **50+** McMaster Engineering Society (MES) clubs to **manage** event registrations, digital waivers, and secure elections
- Designed and implemented **20+ scalable RESTful APIs** using **Express.js**, enabling seamless communication between the **frontend** and **backend** while optimizing performance and scalability, with support for **2,000+** users
- Developed and styled **10+ React.js** pages for key features such as event registration and voting, leveraging **Figma** designs to improve **UI** consistency and achieving a **30%** increase in ease-of-use ratings during testing
- Collaborated with a team of **six** in an **Agile** environment, utilizing **Jira** to manage and prioritize tasks across many sprints, achieving a **90% sprint completion rate** and delivering project milestones ahead of schedule