

# Hussein Saab

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## EDUCATION

### Toronto Metropolitan University

*Bachelor of Science in Computer Science, Co-op*

- Faculty of Science Deans List 2022 – Present

Toronto, Ontario

Sep 2022 – Apr 2027

## EXPERIENCE

### Software Engineer: Backend & Automation Intern

May 2024 – Present

*IBM*

*Toronto, ON*

- Developed and tested software for IBM Supply Chain Intelligence Suite's Provisioning, User Management, and Access Control team using a Microservices Architecture with Java, Spring, Spring Boot, Kafka, Redis, and Cassandra
- Automated process of subscribing to catalogs of services (APIs) and generating credentials, resulting in a **2000%** process time reduction
- Optimized performance and implemented caching strategies to reduce REST calls response time from over 10 seconds to below **300** milliseconds

### Software Engineer Intern

May 2023 – Sep 2024

*Untitled Developers*

*Toronto, ON*

- Collaborated with an multidisciplinary team of developers, designers, and project managers to conceptualize, develop and maintain Flutter applications and websites used by over **5000+** users, to deliver client needs
- Spearheaded feature enhancements for large-scale Flutter applications, including real-time notifications, advanced search filters, and user profile customization.
- Applied expertise in JavaScript, HTML, and CSS to craft **12+** captivating and highly responsive user interfaces for web applications

### Leader

May 2019 – Present

*Canada Scouts*

*Toronto, ON*

- Currently serving as a scouts leader, every Friday evening, leading and supervising a group of over **30+** children ranging from 8-11 years old; planning and organizing weekly activities, including games, crafts, and outdoor adventures, that are engaging and age-appropriate for the scouts group
- Organized and hosted **20+** camping events, sport tournaments and educational lessons, preparing scouters to become future leaders by encouraging community engagement
- Navigated complex scenarios while planning and executing a variety of activities, employing innovative problem-solving techniques. Adapted to unexpected changes and ensured successful outcomes, thereby fostering a culture of resilience, adaptability, and teamwork among scouts.s

## PROJECTS

### GradeCraft: Automated Report Card Generation | *Python, Django*

April 2024

- Developed a robust Python automation tool that utilizes Google Sheets and Drive APIs to generate report cards, streamlining the report card process for over **30+** teachers now using it on a monthly basis.
- Created an Intuitive Django Frontend that enables teachers to effortlessly select grades, classes, and other parameters, allowing them to run the program with ease.
- Saved over **400+** hours annually in report card generation, significantly increasing productivity and allowing teachers to focus more on student engagement and teaching.

### Music Store Application | *Java*

April 2023

- Developed a comprehensive text-based music store application using Java, offering users an immersive and simulated music shopping experience.
- Implemented object-oriented programming principles, including encapsulation, inheritance and polymorphism to create a robust, modular and maintainable codebase

## TECHNICAL SKILLS

**Languages:** Java, Python, C/C++, SQL, Bash, JavaScript, HTML/CSS, TypeScript

**Frameworks:** Flutter, React, Node.js, Flask, Tailwind, MongoDB, Spring, Spring Boot

**Developer Tools:** Git, Docker, AWS, JUnit, Jenkins, Kafka, Redis, Linux/UNIX