

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 Boot, Kafka, Redis, and Cassandra
- Engineered microservices designed to simplify user access control and group management within the software. The microservices streamlined the process of assigning users to groups, managing permissions and ensuring secure access to features and data
- Designed and implemented REST APIs with advanced features such as cursor and offset-based pagination, retry mechanisms, JWT authentication with Spring Security configurations resulting in enhanced scalability, security and improved response times by over **60%**
- Optimized performance and implemented caching strategies using Guava Cache to reduce REST calls response time from over 10 seconds to below **300** milliseconds
- Developed and automated integration and unit tests using JUnit, Mockito and Karate ensuring reliable software and API functionality and streamlined the testing processes with automated pipelines in Jenkins

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, React and CSS to craft **12+** captivating and highly responsive web applications
- Optimized application performance by identifying and resolving bottlenecks, particularly in inefficient SQL queries, improving load times by **30%** and enhancing overall user experience for both web and mobile platforms

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
- Adapted to unexpected changes during scouts activities and ensured successful outcomes, thereby fostering a culture of resilience, adaptability, and teamwork among scouts

PROJECTS

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

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

TECHNICAL SKILLS

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

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

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