MOHAMMED ELSAYED

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EDUCATION

• **McGill University**   **Sep 2021 - Apr 2025**
Bachelors of Engineering in Software Engineering Co-op   Montréal, QC

SKILLS

- **Programming Languages:** Java, Python, C, C++, JavaScript, TypeScript, HTML, CSS, SQL
- **Frameworks:** Spring, Spring Boot, Flask, React.js, Vue.js, JUnit, Pytest, Selenium, Cucumber
- **Tools:** Git, GitHub, MongoDB, PostgreSQL, Maven, Gradle, Jenkins, TestComplete, JIRA, Zephyr

EXPERIENCE

• **Intrado**   **May 2024 - Aug 2024**
QA Automation Engineer Intern

- Engineered and automated test scripts for **3 mission-critical 911 applications**, collaborating with a cross-functional **team of 6** to improve the reliability and efficiency of emergency response software.
- Automated **57 new test cases** spanning both backend and frontend workflows using **Java, JUnit, Python, Pytest, Selenium, and Jenkins**, achieving a **30% reduction** in manual testing and accelerating the release cycle.
- Designed and implemented a **custom automation framework** for a high-priority project, **ECaTS**, integrating seamlessly with existing **CI/CD pipelines**, boosting test execution speed by **40%** and significantly reducing framework maintenance overhead.
- Enhanced application quality and team collaboration by integrating **automated regression tests** into CI/CD workflows, **enabling continuous validation of builds** in a fast-paced, Agile development environment

• **Société Générale**   **Sep 2023 - Dec 2023**
Full-stack Developer Intern

- Partnered with a cross-functional **team of 10+ developers, designers, and stakeholders** to develop and maintain **four internal web applications**, driving operational efficiency across multiple departments.
- Contributed to both backend and frontend development using **Java, Spring Boot, JavaScript, React.js, and PostgreSQL**, achieving a **25% improvement** in application performance and enhanced user satisfaction through responsive, feature-rich interfaces.
- Engineered new features and implemented code optimizations that **reduced page load times by 30%**, leveraging performance profiling tools and best practices for clean, efficient code.
- Refactored legacy components and integrated **modularized APIs** to ensure maintainability of applications.

• **Envnt**   **May 2023 - Aug 2023**
Software Engineer Intern

- Designed, developed, and rigorously tested software applications using **Java, JavaScript, HTML, and JUnit**, delivering robust and scalable solutions to meet user needs.
- Collaborated closely with product owners to **translate complex business requirements into technical solutions**, resulting in the successful delivery of feature updates ahead of schedule.
- Conducted **code reviews** to identify and resolve potential issues, fostered knowledge-sharing among team members, and provided constructive feedback to **enhance code quality** and maintain coding standards.

• **CodeLab**   **May 2022 - Aug 2022**
Web Developer Intern

- Designed, developed, and conducted **unit testing** for web applications, ensuring **functionality, reliability, and scalability** across multiple projects.
- Built and customized **CMS-based webpages** for the company's website, improving **content management efficiency** and enhancing the user interface with modern, responsive designs.
- Utilized **Agile** development practices, contributing to sprint planning and retrospectives, while delivering high-quality, maintainable code on time.

PROJECTS (MORE CAN BE FOUND ON MY WEBSITE AND LINKEDIN)

• **Office Support for Not-for-Profit Organizations (Capstone Design Project)** 🎧   **Sep 2024 - Apr 2025**
Tools: Python, Flask, JavaScript, HTML, CSS, VB Code

- In a team of 3, developed a **Microsoft Outlook Add-in** using **Office.js** and integrated it seamlessly into the Outlook UI via the **Microsoft Developer Mode** and **Visual Basic scripting** for automated event triggers.
- Used a custom **machine learning model** to automatically categorize and assign communications based on message content.
- Implemented a dashboard interface (**Chart.js + jsPDF**) to visualize communication trends by category, volume, and assignee—with custom filtering by day, month, or year.
- Designed a communication form to manually log offline interactions and route them to a designated email inbox.