

# MOHAMMED ELSAYED

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## EDUCATION

### Bachelor of Software Engineering Co-op (B.Eng)

2021-2025

McGill University, Montréal, Québec, Canada

- Relevant coursework: Algorithms and Data Structures, Design Principles and Methods, Software Engineering Practice, Computer Organization, Model-Based Programming.
- Extracurriculars: Currently serving as director of events at MSA McGill. Organizing weekly events for the community.

## SKILLS

**Programming Languages**: Java, Python, C, TypeScript, JavaScript, React.js, HTML, Bash, ARM Assembly

**Technologies**: Linux/Unix, Git/GitHub, Spring, UML, PostgreSQL, JavaFX, Gherkin, OutSystems

**Spoken Languages**: English, French, Arabic

## SOFTWARE ENGINEERING WORK EXPERIENCE

### Full-stack Developer Intern – Société Générale

Sep 2023 – Dec 2023

- Collaborated with a cross-functional team to develop and maintain multiple internal web applications. Contributed to both back-end and front-end development, using Python, Java, TypeScript, React.js, Spring, and PostgreSQL.
- Worked in an agile environment, participating in daily stand-ups, sprint planning, and retrospectives.
- Investigated and resolved critical bugs through rigorous debugging and testing, ensuring seamless functionality and maintaining a high-quality product standard.

### Software Engineer Intern – Envnt

May 2023 – Aug 2023

- Designed, developed, and tested software applications, using Java, JavaScript, HTML, and JUnit.
- Collaborated closely with product owners to translate complex business requirements into technical solutions, resulting in the successful delivery of feature updates ahead of schedule.
- Collaborated with team members on code reviews, sharing knowledge, and providing constructive feedback to improve code quality.

### Web Developer Intern – CodeLab

May 2022 – Aug 2022

- Developed, remediated, and ran unit tests on web applications.
- Developed CMS-based webpages for the company's website.
- Actively participated in design sessions with architects, developers, business partners and managers.

## SOFTWARE ENGINEERING PROJECTS

### Personal Website

May 2023 – Jul 2023

JavaScript – HTML – CSS

- Built a responsive static personal portfolio website using JavaScript, HTML, and CSS.
- Published the website using GitHub Pages.

### ESCAPE

Jan 2023 – Apr 2023

Java – JavaScript – HTML – React.js – Unit Tests – Integration Tests

- Created, in a team of 6, a website for the Engineering Socials Committee in the Faculty of Engineering at McGill University.
- The website allows the committee to upload event tickets for sale, upload photo galleries of their events for people to view after events as well as allow users to create accounts, purchase event tickets, post updates to the website, and interact with other users through trading event tickets, making it a 'social' cyber-space.
- Developed the backend in Java, while the frontend was developed using JavaScript, HTML, and React.js.

### Museum Manager Website

Oct 2022 – Dec 2022

Java – JavaScript – HTML – Vue.js – Vuetify – Spring – PostgreSQL – Unit Tests – Integration Tests

- Created, in a team of 6, a website for managing a simulation of a museum's artifacts, employees, and customers.
- Developed the backend in Java, while the frontend was written in JavaScript, HTML, and Vue.js.
- Used PostgreSQL to create/manage the database. Designed and performed unit tests, as well as integration tests.

### Chess

Feb 2022 – Mar 2022

Java – Object-Oriented Programming – Game Development

- Created a chess game that implements basic object-oriented programming concepts in Java.
- Developed the GUI using Java Swing.