

MOHAMMED ELSAYED

📍 Montréal, Québec

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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.

CÉGEP Diploma (DEC Sciences)

2019-2021

Champlain College, Sherbrooke, Québec, Canada

SKILLS

Programming Languages: Java, C++, C, Python, JavaScript, HTML, Bash, ARM Assembly

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

Spoken Languages: English, French, Arabic

SOFTWARE ENGINEERING WORK EXPERIENCE

Web Developer Intern – Envnt (Remote)

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

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.

DiveSafe

Jan 2022 – Apr 2022

Java – MVC – UML – TDD – BDD – Gherkin – JavaFX

- Developed a desktop GUI application, called DiveSafe, that simulates managing diving members, trips, and equipment rental.
- Collaborated with five other members from the architecture design to the development and testing.
- Leveraged the Model-View-Controller design pattern and developed the application both as TDD and BDD.

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.
- Implemented several GUI Event Handlers.

Pong Game

Sep 2021 – Dec 2021

Java – Object-Oriented Programming – Game Development

- Created a virtual pong game that implements object-oriented programming concepts by writing the relevant code in Java.
- Used acm library to create the ball and the two paddles.
- Included settings such as the difficulty, the speed of the ball, and the color of the ball and paddles.

OTHER EXPERIENCES

ESL Part-time Tutor (Jun 2022 – Present): Currently giving English lessons to non-native speakers. Involves organizing coursework for the students and tracking their progress.

Walmart Canada (Apr 2021 – Aug 2021): Worked as a customer service associate at Walmart, which involved dealing with customers and coworkers. This greatly improved my communication and problem-solving skills.

Champlain College (Jun 2020 – May 2021): Took the executive vice president role in Champlain's Students' Association, which involved dealing with students and the executive team/council. This greatly improved my communication and teamwork skills.