

Marwan Jabbour

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EDUCATION

McGill University | GPA: 3.86/4.0

Sep 2020 – Dec 2023 | Montreal, QC

BSc. Honours Computer Science, Math Minor

- **Awards:** Dean's Honour List, Science Scholar (top 5% in faculty)

WORK EXPERIENCE

Amazon

May 2022 – Aug 2022 | Toronto, ON

Software Engineering Intern

- Reduced the latency of the learning management system (LMS) by ~50% by rebuilding the system architecture using ElasticSearch.
- Built a serverless project from scratch by employing DynamoDB streams, Lambda functions, API Gateway, and other AWS services.
- Doubled the efficiency of the system by merging 3 separate API calls into 1 new API, decreasing search latency for our customers.
- Designed both unit and integration tests for my Lambda functions using the Jest testing framework.
- Leveraged CloudFormation as a tool to provision and manage the created clusters, saving developer time and codebase maintenance.
- **Tools:** Typescript, Node.js, Python, Jest, Git, AWS (Lambda, DynamoDB, IAM, API Gateway, CloudFormation, CloudWatch, VPC)

Loeys-Dietz Syndrome Foundation

May 2021 – Aug 2021 | Montreal, QC

Software Engineering Intern

- Built a tool to automate the scraping of 1000+ LDS articles from 7 healthcare databases, directly saving employee time.
- Built and compared different machine learning models to help classify relevant LDS articles, saving manual classification time.
- **Tools:** Python, Scikit-learn, Selenium, Git, AWS (S3, Lambda, Textract)

Prometheus Lab, McGill 🔗

Jan 2021 – May 2022 | Montreal, QC

Research Assistant

- Rebuilt the neural network tree, with 11 individual neural networks, as a solution to the robot's feedback loop problem.
- Demonstrated successful spatial awareness and autonomous decision-making in 2D grid environments with unknown obstacles.

EXTRACURRICULARS

McGill Computer Science Undergraduate Society

Apr 2021 – present

Equity Commissioner (2021-22), VP Science (2022)

- Represent the interests of 1000+ computer science students in the Faculty of Science at the Science Undergraduate Society meetings.
- Investigated strategies to build a supportive and inclusive community for McGill's 2000+ computer science constituents.
- Launched and hosted EquiTea, a recurring meeting/community for students to discuss various social matters on technology.
- Collaborated on launching the first sustainable teaching award for professors in computer science at McGill University.

McGill Competitive Programming

Sep 2022 – present

Development Lead

- Design and maintain full-stack websites to provide training material for club members and develop projects, such as Tech Games.

Jam for Justice, McGill

Sep 2022 – present

VP Social

- Ensure the club is a safe and welcoming space for all students. Plan team-bonding activities for the club's 15 executive members.

Enactus McGill 🔗

Jan 2021 – May 2021

Software Development Coordinator

- Designed the MTLocal website, in a team of 4, helping 4+ local businesses in Montreal find new customers in their area.

PROJECTS

Customer Relationship Manager 🔗 | Java, Maven, Spring REST, Spring MVC, Spring Security, MySQL, JSP

- Built a CRM web app REST client that communicates with a REST API to allow CRUD operations on data stored in a MySQL DB.
- Secured the REST end points by enforcing security authorizations and bcrypt authentication.

Classroom 🔗 | Javascript, React, Azure Cosmos DB, Azure Functions, Azure Blob Storage, Azure ADB2C, Azure API Management Service

- Built an end-to-end web application that helps instructors manage students in a classroom through the use of Azure stack.
- Added user authentication and authorization using Azure ADB2C. Secured REST APIs through API Management Service.

PlantKeeper 🔗 | Swift, Firebase, XCode, Figma

- Built an iOS app that helps people find plant-sitters in their area. Used Firebase to setup logins and to query the data in real time.

Phonebook 🔗 | ASP.NET, C#, Entity Framework, Visual Studio, CSS, HTML

- Built a web app that allows create, update, and search functionality on entries in a phonebook. Utilized the MVC design pattern.

SKILLS

- **Languages:** Java, Typescript, Python, C++, C, Julia, SQL, HTML, CSS, Bash, Unix, Assembly Language (MIPS)
- **Tools:** AWS, Azure, MySQL, Git, Spring MVC, Spring REST, Spring Security, Hibernate, Jest, JUnit
- **Courses:** Database Systems, Software Design, OOP, Data Structures, Algorithms, Data Science, Web Development, Machine Learning