

CLARA JABBOUR

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Education

Bachelor of Software Engineering Co-Op

McGill University, Montreal, QC

McGill University, Hugh Brock Scholarship

September 2021 – December 2025

Technical Skills

Programming Languages: Java, C++, JavaScript, Python, VHDL, Linux, SQL, R, React.js, C#, SQL

IDEs: IntelliJ, Eclipse, Visual Studio Code

Numerical Software: LabView, MATLAB, Mathematica, Excel

Simulation Tools: UMPLE, Scene Builder, AutoCAD, SolidWorks **Cloud**

Computing: AWS, Azure, Google Cloud

Languages

French (native), English (native, bilingual), Arabic (professional fluency)

Professional Experience

Software Developer Intern: Intact Insurance

May-August 2025

Internship, Montreal, QC

- Implemented a centralized logging system for all new REST-based microservices, extracting only relevant request/response payload data to improve debugging efficiency.
- Optimized log storage and retrieval by designing custom filtering logic, reducing unnecessary data capture and improving performance.
- Completed primary project one month ahead of schedule, enabling contribution to resolving API
- Collaborated with development and security teams to integrate logging and monitoring tools into CI/CD workflows, enhancing maintainability.

AI & Database Engineering Intern: Bell

September-December 2024

Internship, Montreal, QC

- Designed and implemented data classification systems in Google Cloud Platform using policy tags, enabling secure and efficient handling of sensitive enterprise data.
- Optimized data pipelines and queries in BigQuery, reducing processing times by 30% and improving cost efficiency for large-scale datasets.
- Developed scalable automation scripts to streamline workflows for database maintenance and data retrieval, enhancing system reliability and reducing manual effort.
- Led the creation of documentation and training materials, ensuring smooth onboarding for team members and promoting long-term knowledge retention.

Test Automation Developer: Intact Insurance

May-August 2024

Internship, Montreal, QC

- Spearheaded the implementation and testing of Elastic Search ingestion for a new microservice, utilizing advanced Java programming to handle complex scenarios.
- Engineered robust SQL queries to rigorously test the new database architecture, performing comprehensive comparisons with the legacy system to ensure seamless transition and deprecation.

- Developed and integrated new schemas and payloads for the microservice, enhancing data processing capabilities and ensuring compatibility with existing systems.
- Conducted comprehensive integration testing, ensuring the robustness and reliability of the new microservice within the broader system architecture.

Software Developer: Introspect Technology

May-August 2023

Internship, Montreal, QC

- Developed and executed Python stress test scripts, ensuring comprehensive hardware and firmware evaluation, enhancing product reliability.
- Collaborated with cross-functional teams to troubleshoot and resolve complex hardware-firmware integration issues, optimizing test efficiency and accuracy.
- Automated data analysis processes using Python libraries, expediting result interpretation, and enabling informed decision-making.
- Contributed to enhancing team productivity by documenting test procedures and findings, facilitating seamless knowledge sharing and project continuity.

Software Engineering Projects

Automated Email & Bulk Messaging Platform | Python, Render

January 2025

Personal Project

- Developed and deployed a cloud-hosted software on Render to automatically send personalized welcome emails as soon as a new customer from Jay and the Juice signs in.
- Integrated bulk email functionality, enabling the company to send targeted campaigns to multiple recipients efficiently.
- Designed and connected a database to store and track all email activity, ensuring accurate logging and easy monitoring of communication history.

SmartEats | Java, Maven, Gradle

January 2024

McGill University, Software Engineering Practice

- Developed a fully functional website in Java with a Maven front-end to track weight, weight goals, dietary restrictions, and suggest meal plans.
- Collaborated in a team of 10 students working in Agile methodology, including sprints, scrum master roles, backlog meetings, sprint reviews, and retrospectives.
- Implemented both back-end and front-end functionalities, along with comprehensive testing and API integrations.

Hotel Management booking system

September 2023

McGill University, Intro. to Software Engineering

- Spearheaded the development of a hotel booking website using Java and PostgreSQL, optimizing for efficiency and user experience.
- Crafted a responsive web interface and streamlined real-time booking processes.
- Executed sophisticated SQL queries for optimized data handling and reporting.
- Leveraged Gradle for efficient build automation and utilized GitHub for team-based version control, collaborating closely with a group of five peers.

E-Commerce Integration Project | Python

March 2023

Personal Project

- Built an e-commerce store for a spare parts dealership using Shopify APIS, and AWS Lambda. Implemented Python Lambda functions to synchronize dealership's POS system with the online store using webhooks.
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