




SALIMA AMMAR

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Education

Concordia University

Bachelor of Engineering - Software Engineering Co-op

- Received the Women in Engineering Entrance Award, a scholarship awarded to a top ranked student.
- Coursework: Software Architecture and Design, Operating systems, Object-Oriented Programming, Cloud computing.

Experience

Bombardier Inc.

September 2024 – May 2025

Software Engineering Intern - New Products Development (PLM)

Montreal, QC

- Developed a **Python**-based validation tool to ensure dataset consistency across systems, reducing data errors by **60%**.
- Automated internal processes using **Python**, **Azure**, and **Selenium**, significantly reducing manual work effort.
- Developed **data models** using **Capella** to map dataset relationships and visualize data flow, ensuring consistency.
- Organized a scientific activity for 'Les filles en sciences' as part of the Women in Engineering program.

Desjardins Insurance

May 2023 – August 2024

Technical Support and Digital Offer Agent

Montreal, QC

- Solved technical issues for web and mobile applications, improving uptime and enhancing user experience.
- Logged and managed **JIRA** tickets to escalate unresolved issues, ensuring timely fixes in collaboration with dev teams.
- Assisted users with troubleshooting and system navigation, documenting solutions to improve internal knowledge bases.

Projects

ChatApp | *React, Node.js, MongoDB, Socket.IO, Tailwind CSS, GitHub Actions*

[Github](#)

- Developed a **full-stack** chatting platform with group text channels and private messaging.
- Implemented **real-time** direct messaging with **Socket.IO**, achieving **~200ms** latency.
- Designed a responsive UI with **ReactJS**, **Tailwind CSS**, and **Motion UI** to enhance usability across devices.
- Applied the **MVC** design pattern to structure backend logic, reducing code complexity and improving **scalability**.

AI Medical Chatbot | *Python, Flask, Groq API, LangChain, Pinecone, Docker, AWS*

[Github](#)

- Designed a backend service in **Python** and **Flask** to handle queries and route requests through **NLP pipelines**.
- Integrated the **Groq API** to perform low-latency inference for LLM-based question answering (**~250ms** response time).
- Used **LangChain** for prompt orchestration and **Pinecone** for vector-based semantic search over medical documents.
- Configured **CI/CD** with **Docker** and **AWS** to automate testing and deployment, reducing downtime by 90%.

TinPets | *React, TypeScript, Node.js, MongoDB, Tailwind CSS, Jest*

[Github](#)

- Built a full-stack MERN app with **JWT-based authentication** using **React** and **Node.js**.
- Designed a responsive UI with **TypeScript** and reusable React components, improving maintainability.
- Developed **RESTful APIs** for pets, profiles, and search with **MongoDB** integration.
- Configured **CI/CD pipeline** with GitHub CI/CD and automated testing with **Jest**, ensuring code quality and stability.

Arithmetic Calculator | *Java, Multi-threading, Data Structures & Algorithms*

[Github](#)

- Built a **Java** calculator with a **stack-based** parser, supporting trigonometry, logarithmic, and exponential functions.
- Implemented **multi-threading** for concurrent evaluation, improving batch processing speed by **~35%**.
- Designed an interactive **CLI** with history tracking and command recall for enhanced usability.
- Optimized computation with caching and memoization, reducing redundant calculations.

Skills

Languages & Frameworks: Python, Java, C, JavaScript, TypeScript, Swift, Ruby, C#, React, Django

Tools & Technologies: Node.js, Tailwind CSS, HTML/CSS, MongoDB, SQL, Docker, Firebase

Cloud & DevOps: AWS, Azure, GitHub CI/CD

Leadership

HackConcordia

May 2024 – April 2025

Director of Logistics

Concordia University

- Managed logistics for hackathons and tech events with 800+ participants, ensuring smooth operations.
- Coordinated procurement of equipment, catering, and venue setup, optimizing costs and event efficiency.
- Developed emergency response plans and scheduling systems, improving event reliability and safety.