

# SALIMA AMMAR

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🐙 [github](#)

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## Education

### Concordia University

September 2023 – May 2027

*Bachelor of Engineering - Software Engineering Co-op*

*Montreal, QC*

- Received the Women in Engineering Entrance Award, a scholarship awarded to a top ranked student

## Experience

### Bombardier Inc.

September 2024 – Present

*Software Engineering Intern - New Products Development (PLM)*

*Montreal, QC*

- Automated data workflows using **Power Automate**, reducing manual effort by **67%** across the team.
- Developed a tool using **Python** to validate files, ensuring data integrity and compliance with project standards.
- Created **data models** using Capella ensuring design consistency and alignment with project requirements.
- Conducted **QA testing** on new tools within Teamcenter, enhancing system reliability and user confidence.
- Participated in the **Women in Engineering** program, receiving weekly one-on-one mentoring and collaborating with fellow interns to organize a scientific activity for "Les filles en sciences" event.

### Desjardins Insurance

May 2023 – August 2024

*Technical Support and Digital Offer Agent*

*Montreal, QC*

- Resolved technical issues for web and mobile applications, ensuring optimal functionality and user satisfaction.
- Identify and implemented digital solutions, improving client experience and operational efficiency.

## Projects

**AI Medical Chatbot** | *CI/CD pipeline, Docker, AWS, Pinecone, Groq API, Flask, Python*

[Github](#)

- Built a medical chatbot using **Python** and **Flask** to provide users with concise medical information.
- Utilized **LangChain** and **Pinecone** for document **embedding and retrieval**, enabling efficient responses.
- Implemented a **CI/CD pipeline** using GitHub to automate the deployment of the application to a AWS EC2.
- Used **Docker** for containerization, ensuring consistent and reliable application environments.
- Integrated **Groq API** for **NLP**, enabling the chatbot to understand and respond accurately.

**Arithmetic Calculator** | *Java, Data Structures and Algorithm*

[Github](#)

- Built an arithmetic calculator using **expandable stacks**, achieving  $O(1)$  amortized push operations.
- Designed a precedence-based parser using stacks, achieving correct evaluation of nested expressions.
- Processed expressions from a file using stack computation, achieving automated result storage.

**Packing list** | *React*

[Github](#)

- Built a **React** application, using **useState** for managing the addition, deletion, and sorting of items.
- **Implemented** sorting functionality that categorizes items, using JavaScript's sort and filter methods.
- Developed a progress tracking feature using **state-driven conditional rendering**.

**Pets Adoption Website** | *CSS, JavaScript, EJS, Node.js (Express)*

[Github](#)

- Developed a **full-stack** pet adoption website using **HTML5, CSS, JavaScript, and Node.js**.
- Enhanced interactivity using **Express.js** for server-side routing and session management with express-session.
- Employed **EJS** as the primary templating engine to **dynamically** render server-side views, which facilitated the seamless integration of server-side logic with client-side interfaces.

## Skills

**Languages:** Python, Java, C, HTML/CSS, JavaScript, Swift, C#, SQL, clojure, Erlang, TypeScript

**Technologies:** ReactJS, React Native, Tailwind, Node.js (Express, EJS), MongoDB, Django, AWS, Docker, Firebase

## Leadership / Extracurricular

### HackConcordia

May 2024 – April 2025

*Director of Logistics*

*Concordia Univeristy*

- Procured catering, food, and necessary equipment for society and hackathon events.
- Coordinated logistics and emergency plans, including scheduling and maintaining essential contact information.