

Salima Ammar

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EDUCATION

Concordia University

Montreal, QC

BEng, Software Engineering (Co-op) – Women in Engineering Entrance Award

EXPERIENCE

Shopify

Sep 2025 – Present

Montreal, QC

Infrastructure Engineering Intern – Cloud Systems

- Cut investigation time by automating an internal workflow; cut 2+ hr steps to ~15–20 min.
- Orchestrated safe GKE cluster decommission/replace; validated workloads and staged rollouts to limit disruption.
- Reduced recovery time by executing rollbacks, config corrections, and dependency coordination during incidents.

Concordia Information Security Research Lab

May 2025 – Aug 2025

Montreal, QC

Research Assistant – Software Developer

- Built an **analytics dashboard** in **React+Flask**; cut query-to-visual latency significantly.
- Optimized PostgreSQL with normalized schema and targeted indexing; improved query time under load.
- Hardened access to research endpoints with scoped routes; reduced defect rework across the pipeline.

Bombardier

Sep 2024 – May 2025

Software Engineering Intern – PLM

Montreal, QC

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

Desjardins Insurance

May 2023 – Aug 2024

Technical Support & Digital Offer Agent

Montreal, QC

- Prioritized and escalated incidents in **Jira**; decreased time to first engineering action by ~35%.

- Resolved user issues via structured troubleshooting; lowered repeat contacts by ~20% and raised CSAT.

PROJECTS

QwikRide – Bike Sharing System — React, Spring Boot, Spring Security, Maven

[GitHub](#)

- Delivered RBAC-secured APIs with **Spring Security+JWT**; enforced role-scoped Operator and Rider flows.
- Optimized UX with route-level code splitting and client caching; improved perceived load by ~35%.
- Shipped responsive UI with motion cues for status changes; reduced form error rates via validation and boundaries.

LLM Leaderboard Web Platform — React, Python/Flask, PostgreSQL, AWS, Supabase

[GitHub](#)

- Built low-latency leaderboards with normalized **PostgreSQL** schema and tuned aggregations; query time < 200ms.
- Implemented CI/CD with **GitHub Actions** to **AWS EC2**; scheduled backups on **Supabase**.

ChatApp — React, Node.js, MongoDB, Socket.IO, Tailwind, GitHub Actions

[GitHub](#)

- Enabled real-time channels and DMs with delivery receipts and typing indicators; median send-to-receive ~200ms.
- Applied backend **MVC** and persistence; sustained concurrent sessions without message loss.

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 **Groq API** to perform low-latency LLM-based question answering (~250ms response time).
- Used **LangChain** for prompt orchestration and **Pinecone** for semantic search over medical documents.

SKILLS

Programming & Systems: Go, Python, Java, JavaScript, C, SQL, Linux, Bash, React, Swift

Cloud, Infra & DevOps: Kubernetes, Docker, GCP, AWS, IaC, Observability (dashboards, SLOs, alerting)

Security & AI: Packet capture (tcpdump), network diagnostics, access control/RBAC, LangChain, RAG basics

LEADERSHIP

HackConcordia

May 2024 – Apr 2025

Director of Logistics

Montreal, QC

- Coordinated end-to-end logistics for tech events with 800+ attendees; vendor, venue, and A/V operations.