

Ghalem Salim

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EDUCATION

Université du Québec à Montréal (UQAM)

Master's in Computer Science (M.Sc.)

- GPA: 3.52/4.3 (preparatory coursework)

Montréal, Canada

Sep 2026 - Sep 2028

M'Hamed Bougara University of Boumerdès

Master 1 in Software Engineering and Information Processing

Bachelor's in Computer Systems

- Capstone project: design and implementation of a CMMS for maintenance task tracking at Modern Facility

Algiers, Algeria

Sep 2024 - Jun 2025

Sep 2021 - Jun 2024

PROFESSIONAL EXPERIENCE

Teaching Assistant – INF5190 – UQAM

Montréal, Canada

Fall 2026

FullstackJS & Generative AI Instructor – Code213 (freelance, weekends)

Algiers, Algeria

Aug 2024 - Nov 2025

- Trained individuals and companies on the MERN stack (MongoDB, Express, React, Node.js).
- Guided learners through hands-on workshops and real-world applications to build modern web solutions while meeting delivery deadlines.
- Taught the core concepts of artificial intelligence and generative AI.
- Helped individuals and businesses use LLMs and other AI tools to optimize their workflows.

Lead React Native Developer – Binnovant (remote contracts)

Algiers, Algeria

Sep 2024 - Nov 2025

- Led the development of high-performance mobile applications with React Native.
- Met project deadlines and milestones.
- Mentored a team of developers new to React Native.
- Established best practices for code quality, testing and agile processes.

Fullstack Engineer – Code and Sens (remote contracts)

Algiers, Algeria

Sep 2024 - Nov 2025

- Led the development of a mobile app for a coworking space with React Native and Expo.
- Built a TypeScript microservices backend communicating over RabbitMQ to manage the entire Code and Sens environment (training school and coworking space).
- Met project deadlines and milestones.
- Established best practices for code quality, testing and agile processes.

Fullstack Developer – Modern Facility (Internship)

Algiers, Algeria

Jan 2024 - Mar 2024

- Developed a cross-platform mobile app with Expo React Native, TSX and Expo Router.
- Built the CMMS backend in TypeScript.
- Automated maintenance task tracking.

Freelance Developer

Remote

Jan 2024 - Present

- Web and mobile projects for businesses and individuals.
- Worked with clients such as Gevora Technologies and BPremier to deliver fullstack applications with a focus on scalability and security.

NOTABLE PROJECTS

Scammy AI: fraudulent product detector using sentiment analysis

Concepts: Web scraping, NLP / sentiment analysis, microservices architecture (3-tier), REST API

Technologies: Python, Flask, NLTK, VADER, ScraperAPI, Next.js, NestJS

- Designed an architecture of 3 independent services (Next.js frontend, NestJS backend, Flask/Python AI service).
- Developed an Amazon scraping module using ScraperAPI to extract product reviews, ratings and images.
- Implemented sentiment analysis with VADER (NLTK) to compute a composite score from customer reviews.

- Built a REST API returning a verdict (reliable, suspicious or fraudulent product) with related statistics (review count, average rating, positive/negative keywords).

Code and Sens Platform: microservices backend system

Concepts: Microservices architecture, asynchronous messaging, multi-tenant management (training school and coworking space)

Technologies: TypeScript, Express.js, RabbitMQ, React Native, Expo

- Designed and developed a microservices backend communicating via RabbitMQ to manage the entire Code and Sens environment.
- Developed a React Native/Expo mobile app to manage the coworking space.

TECHNICAL SKILLS

- **Programming Languages:** HTML, CSS, JavaScript, TypeScript, Python, C, C++, Java, XML, SQL, OCaml
- **Frameworks:** Express.js, Node.js, NestJS, React, Next.js, React Native (CLI and Expo)
- **Databases:** Firebase, MongoDB, PostgreSQL, Neo4j, MySQL
- **CSS:** Tailwind CSS, Material UI, shadcn/ui
- **AI / Machine Learning:** NumPy, pandas, Matplotlib, seaborn, supervised and unsupervised learning, LLMs (embeddings and prompt engineering)
- **Libraries:** Mongoose, Prisma, Redux, Zustand, Legend-State, SQLite, Axios, React Query, Selenium, Puppeteer
- **Languages:** Arabic (native), French (C2, TCF Canada), English (C1, EF SET), German (A2)

CERTIFICATIONS

Nvidia

Fundamentals of Deep Learning

Algiers, Algeria

February 2024

Code 213

AI and Machine Learning

Algiers, Algeria

March 2025

EXTRACURRICULAR ACTIVITIES

GDSC UMBB Club (now DevUp)

Dec 2022 - Jun 2025

Writer, then web mentor, then co-lead of the Development department

- Organized web workshops for various clubs across Algeria.
- Developed the official websites of GDSC and DevUp.
- Managed a team developing projects within the club.

ESI Scientific Club – Member of the Development Department

Nov 2024 - Jun 2025

- Contributed to various web projects for the club.

INTERESTS

- Took part in several hackathons and ideathons (MicroHack, Brainathon, etc.) as a participant or mentor; winner of the first Brainathon edition.
- Passionate about AI and its societal implications.
- Sports (soccer, tennis) and reading (Yasmina Khadra, Albert Camus).