

Ahmed Loubiri

Software Engineering Student

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Education

B.Sc. Software Engineering — INSAT

National Institute of Applied Science and Technology

2023 – Present

INSAT, Tunisia

Baccalaureate in Mathematics, with Distinction

Lycée Pilote de Manouba

2023

Manouba, Tunisia

Technical Skills

Languages	JavaScript, TypeScript, Java, Python, PHP, C, C#, C++, SQL, Bash, HTML/CSS
Frontend	React, Next.js, Twig
Backend	NestJS, FastAPI, Spring Boot, Symfony, .NET, Microservices Architecture
AI / ML	RAG pipelines, LLM integration, AI-driven architecture, TTS
Databases	PostgreSQL, MySQL, MongoDB, Oracle, TypeORM
Tools	Docker, Git, Linux, UML, Agile/Scrum, Design Patterns, OOP

Professional Experience

Backend & AI Engineer (Part-time)

DatumWave

Feb 2026 – June 2026

Tunisia

- Designed and developed RESTful backend APIs using NestJS and FastAPI, integrated with PostgreSQL and MongoDB.
- Built and deployed RAG pipelines and LLM-powered features, containerized with Docker for cloud deployment.

Business Development Manager

Junior Entreprise INSAT

Jun 2025 – Jun 2026

INSAT, Tunisia

- Lead event organization, project prospecting for the Projects Division, and long-term partnership development.

OC Logistics Manager

Junior Entreprise INSAT

Sep 2024 – May 2025

INSAT, Tunisia

- Coordinated internal event logistics and supported organizational operations.

Logistics Manager — Data Overflow

ACM INSAT & IEEE INSAT CS Chapter

Dec 2024 – Feb 2025

INSAT, Tunisia

- Managed logistics for a competitive programming and data science event.

Projects

RNCT Platform — Next.js, NestJS, Docker, Python, RAG, LLMs, Multi-tenant SaaS

AI-driven national career guidance platform orchestrating automated evaluation interviews, dynamic skills mapping, and intelligent job/training matching, with sovereign hosting in Tunisia.

Massar — AI-Powered Entrepreneurship Orientation Platform — Next.js, NestJS, Python, FastAPI, RAG, LLMs, Explainable AI (XAI), PostgreSQL

Built an AI-powered platform that helps entrepreneurs evaluate their startup maturity and navigate their entrepreneurial journey. Developed adaptive AI workflows, a startup maturity classification engine, an explainable scoring system across five business dimensions, a RAG-based resource recommendation engine, and personalized action roadmaps to guide founders toward their next growth stage.

Commercial Business Intelligence Platform — Next.js, FastAPI, LLM, TTS

AI agent for commercial insurance with personalized recommendations, WhatsApp/email automation with message history, and automated daily cron alerts.

INSAT Business Forum Platform — Next.js, NestJS

Full-featured job fair management platform for 35+ exhibitors, company registrations, offer listings, and student-company interactions.

EL_NASBA E-Commerce — Symfony, Twig, MySQL Movie Manager — Java, Spring Boot

Collaborative e-commerce platform and a REST API for movie management, built in academic team settings.

Achievements & Leadership

- 2nd Place** — AI for Entrepreneurship Track, AINS 4.0 Hackathon.
- Top 4** — BH Assurance Next Hackathon (AI/Insurance domain).
- President of Organizing Committee** — 7th INSAT Business Forum: 35+ exhibitors, workshops, and an AI-focused hackathon on road safety.

Languages

Arabic (Native) · French (Fluent) · English (Fluent) · Spanish (Intermediate)