

AYMEN FALLEH

Junior AI Engineer

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PROFILE

Developer specializing in AI, Machine Learning, and Full-Stack engineering. Experienced in building end-to-end applications, bridging advanced AI backends (GNNs, CV, OCR) with scalable web architectures to solve real-world demands. Quick to pick up any tool, framework, or domain needed to get the job done.

TECHNICAL SKILLS

AI & Deep Learning: PyTorch, TensorFlow/Keras, GNNs, Explainable AI (XAI), scikit-learn
LLM & Generative AI: Prompt Engineering, Multi-Provider LLM APIs (OpenAI, Anthropic, Gemini)
Computer Vision: OpenCV, YOLOv8, Tesseract OCR, MediaPipe
Programming & Web: Python, SQL, JavaScript, FastAPI, React, Next.js
Tools & Databases: Docker, Redis, Celery, MongoDB, PostgreSQL, MinIO, Git, Linux
Soft Skills: Problem Solving, Leadership, Teamwork, Adaptability, Continuous Learning

EDUCATION

Bachelor's Degree in Computer Science — ISITCom Sousse 09/2023 – 06/2026

EXPERIENCE

AI Engineer Intern — ARSII, Sfax 08/2026 (1 month)

- Built an AI agent connecting to the organization's database to answer natural-language questions and auto-generate reports and spreadsheets from the results.

AI & Full-Stack Developer Intern — MARS Research Laboratory 02/2026 – 06/2026

- Designed an Explainable AI (XAI) GNN recommender engine to match users with therapists transparently.
- Built the end-to-end web app using FastAPI and React/Next.js; containerized the system using Docker.
- Integrated MongoDB and Redis to handle data persistence and real-time traffic.

ML Engineer Intern — Celestial Wave Digital 06/2024 – 08/2024

- Developed and optimized an OCR pipeline for Arabic PDF extraction using Tesseract and OpenCV.

VOLUNTEERING & LEADERSHIP 2024 – Present

- Led several workshops on algorithms and SQL to strengthen foundational programming skills.
- Led English Conversation Hour sessions to develop communication and critical-thinking skills.

PROJECTS

JobMatch AI — Next.js, FastAPI, PostgreSQL, Celery, Multi-Provider AI Router

- Production SaaS that automates job applications: takes a resume, tailors it to a specific job posting, and generates a matching cover letter and outreach email.

License Plate Detection & OCR — Python, YOLOv8, Tesseract OCR

- Integrated detection and text extraction for license plates in various lighting conditions.

CERTIFICATIONS

Associate AI Engineer for Data Scientists — DataCamp (2026)

40-hour career track covering machine learning, PyTorch, LLMs, MLOps, Explainable AI, and Git.

Associate AI Engineer for Developers — DataCamp (2026)

29-hour track covering LLMs, AI APIs, Hugging Face, LangChain, LLMOps, and software engineering.

LANGUAGES

English: Fluent | Arabic: Native | French: Intermediate

INTERESTS

Hackathons · AI & ML Competitions · Travelling · Chess