

Omar Farouk LAMOUCI

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Experience

Fullstack Engineer - Duality Agency

January, 2026 – June, 2026

- Proposed a more efficient alternative than time-consuming manual SEO and AEO audits for projects under development.
- Engineered, built and tested a scalable fullstack web application using Node, NestJS, Playwright, NextJS, React and Tailwind following a solid 3 tier architecture.
- Developed automated crawling and analysis engines using Playwright to detect multiple categories of SEO issues across web pages.
- Optimized and automated manual SEO auditing tasks via the application, decreasing analysis time from hours to minutes.
- Centralized SEO remediation workflows through built-in task lists and historical report tracking, enabling clear visibility into site evolution and fix progress and offering better organisation and traceability.
- Accelerated development cycles using AI-assisted engineering workflows (prompt engineering, code generation, automated test generation) while maintaining clean architecture and code quality.

Projects

- **Doctor Appointment Platform** – Developed a full-stack system for booking doctors with an AI recommendation engine based on symptoms (*PHP, MySQL, Apache, JavaScript, Python, HTML, CSS*)
- **Gamified Kids' Website** – Designed an interactive platform that integrates AI to teach English through games and AI-generated quizzes based on teacher's input (*LLM API Integration, TypeScript, NodeJS, NextJS, React, Tailwind*)
- **URL Shortener with Security Layer** – Built URL shortening service that converts long URLs into optimized, shareable links with real-time malware and phishing detection using Google Safe Browsing API (*Node.js, Express, React, MongoDB, JavaScript, CSS*)
- **Nim Game AI** – Implemented the AI Minimax algorithm with Alpha-Beta pruning for a strategy game with a GUI (*Python, Pygame*)

Education

ESST Hammam Sousse, Tunisia

Bachelor's degree in Computer Science and software engineering

Graduated in 2026

- Ranked **1st in class**. Optional subjects: AWS Cloud, Blockchain, OOP (C++), Advanced Python.

Jendouba Pioneer Secondary School, Tunisia

Mathematics Baccalaureate Degree

Graduated in 2023

- Graduated with **honours**

Leadership & Activities

Logistics Manager - Microsoft Club ESSTHS

September, 2023 – June, 2024

- Managing club resources and optimising their exploitation, orchestrating events and workshops.

Club Leader - Tunisia88 Music Club Lycée Pilote Jendouba

September, 2020 – September, 2022

- Lead the club's participation in the yearly "song contest" and "creativity contest", winning a piano instrument.
- Contributed in the composition and performance of two musical projects and several concerts.

Skills: Backend: NodeJS, NestJS, ExpressJS, PostgreSQL, MySQL, Prisma, TypeScript, Javascript, Python | Frontend: React, NextJS, Tailwind, JavaScript, TypeScript | DevOps & Tools: Docker, Linux, Playwright | AI & Automation: LLM APIs, Prompt Engineering, NumPY, Pandas, scikit-learn.

Languages: English (Strong), French (Strong), Arabic (Strong), German (Beginner).

Interests: Singing, Indie/Alt music, Songwriting, Music Production, Football Tactics, Philosophy/Epistemology.