

Nourddine Benyahya

Software Engineer

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SUMMARY

Software Engineer with 3+ years of experience in backend, full-stack, and low-level development. Focused on designing scalable architectures, optimizing database performance, building high-throughput APIs for production environments, and applying AI engineering to solve complex problems.

EXPERIENCE

Backend/AI Engineer

Aug 2025 – Present

Tecnibo, Tetouan – Full Time

- Engineered a backend configurator using NestJS and PostgreSQL, developing 60+ interconnected RESTful APIs and custom SQL functions.
- Built an internal AI assistant using LLMs, RAG, and vector stores to accelerate training for new employees on a complex furniture-building application.

Full Stack Developer

2023 – 2025

Self-Employed, Freelance – Remote

- Delivered 5+ custom web applications end-to-end using React, Node.js, and MongoDB, from database design through deployment.
- Containerized all client projects with Docker, reducing deployment setup from hours to under 10 minutes.

Full Stack Developer Intern

May – June 2023

FD Solutions, Tetouan

- Built an employer and intern management platform using React and Laravel, tracking 50+ intern assignments in a single dashboard.
- Connected the React frontend to a Laravel REST API with role-based access control supporting 3 user roles.

EDUCATION

Bachelor's Degree in Software Engineering

2025 – 2026

ENSA Kenitra – National School of Applied Sciences

IT Project Management, Cloud-Oriented Services and Software Architecture

Software Engineering – IT Architecture

2023 – 2025

1337 Med Tetouan (42 Network)

Completed 15+ peer-evaluated projects in C, C++, DevOps, networking, and algorithms.

Specialized Technician Diploma in Full Stack Development

2021 – 2023

ISMO Tetouan (OFPPT)

Core stack: MERN, Python, MySQL, Docker, and Jira.

PROJECTS

TAQA Copilot

1st Place – TAQA Hackathon 2025

- Engineered an AI-driven anomaly prediction system and RAG assistant for energy infrastructure using NestJS, FastAPI, and LangChain.
- Processed real-time sensor data from 100+ data points, flagging equipment failures up to 24 hours in advance.

WebServ

HTTP Server from Scratch

- Created an HTTP/1.1-compliant server in C++98 with CGI support, multiplexed I/O, and non-blocking sockets handling 50+ concurrent connections.

Inception

DevOps Infrastructure

- Orchestrated a multi-container Docker environment with WordPress, MariaDB, Nginx, automated SSL, and Redis caching across 5 services.

TECHNICAL SKILLS

Languages: C, C++, Python, TypeScript, JavaScript, SQL, Bash

Backend: NestJS, Node.js, FastAPI, Laravel, REST APIs

Databases: PostgreSQL, MySQL, MongoDB, Redis

AI & LLM: RAG, LangChain/LangGraph, Vector Stores, LLMs

DevOps and Tools: Docker, Docker Compose, Azure, Git, Jira, Linux

FrontEnd: React, Next.js

Concepts: Clean Architecture, Database Optimization, API Design, Networking, Cybersecurity

ACHIEVEMENTS

1st Place – TAQA Morocco TAQATHON 2025 (AI Hackathon)

National Finalist – WorldSkills Lyon 2024

Top 5 – ENSIAS Hackathon 2022

LANGUAGES

English (Professional Working) | Arabic (Native) | French (Intermediate)