

Djaouad Frih

AI & Full-Stack Developer · RAG · LLM Apps · AI Agents

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Summary

Software engineering graduate (ESI SBA) who designs, builds, and ships production-grade AI products end-to-end. Specializes in LLM-powered applications, RAG pipelines, and AI agents for real business workflows — from database design and API architecture through deployment. Ships products that drive efficiency and revenue, not demos.

Technical Skills

- **Frontend:** Next.js, React, TypeScript, Tailwind CSS, React Native, JavaScript
- **Backend:** NestJS, Node.js, Express, Python, PostgreSQL, pgvector, REST APIs, WebSocket
- **AI/ML:** LLMs, RAG, AI Agents, Gemini, OpenAI, LangGraph, Tool/Function Calling, Embeddings, Vector Search, Prompt Engineering
- **DevOps & Cloud:** Git, GitHub Actions, Docker, Linux, CI/CD
- **Security:** Web Pentesting, OWASP, API Security

Experience

Freelance AI & Full-Stack Engineer

Remote (2024 – Present)

- Architect and ship AI agents, RAG knowledge systems, and AI-powered full-stack products for clinics, e-commerce, and SaaS clients.
- Deliver fixed-price, milestone-based projects end-to-end: scoping, architecture, build, deployment, and handover of code and infrastructure.
- Cut lead-capture time for clients by building 24/7 AI receptionists and support agents grounded in each client's own data.

Projects

AI Virtual Receptionist

Next.js · NestJS · pgvector · React Native · Gemini

Multitenant 24/7 AI receptionist ensuring no inbound lead is missed: books appointments, captures and qualifies leads, routes conversations, and hands off to humans with AI-drafted replies. Real-time streaming chat, RAG knowledge base, and native Android app. *chat.djaouad.tech* · GitHub

Smart PDF Workspace

Next.js · NestJS · pgvector · Gemini · WebSocket

Converts PDFs into a searchable knowledge base: auto-extract, chunk, embed into pgvector, and answer natural-language questions with citations. Embeddable widget and analytics. *docs.djaouad.tech* · GitHub

AI Customer Support Agent

Next.js · NestJS · LangGraph · pgvector · OpenAI

Answers questions from a RAG knowledge base, checks orders, creates tickets, escalates to humans only when needed. Admin dashboard and embeddable widget. *customer.djaouad.tech* · GitHub

Education

Master's Degree in Computer Science

2026

École Supérieure en Informatique (ESI SBA) — AI, software engineering, distributed systems.

Bachelor's Degree in Software Development and AI

ESI SBA

State engineering diploma, specialization in software development and AI.

Languages

Arabic (native) · English (professional) · French (professional)