

Faouzi El Bakri

AI Engineer & Full-Stack Developer — Next.js · LLM Agents & RAG · Postgres

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SUMMARY

AI-focused full-stack engineer with **6+ years** building and shipping production web products end-to-end. I specialize in **LLM-powered applications** — multi-agent pipelines, RAG, and tool/function-calling agents — built on a modern **Next.js / React / TypeScript** stack with **PostgreSQL / Supabase** data layers. I've shipped real products people use: a legal-AI platform (FASL, **58.4K search impressions / 28 days**), a consumer AI product with paying customers (Magical Hekaya), and a K-beauty e-commerce store (Belmo — **818 clients in its first two months**), plus freelance deliveries — a WhatsApp AI job-matching agent, a real-time fintech trading platform, an LMS, and a B2B marketplace. I own the whole lifecycle (architecture → build → deploy → iterate) and self-host comfortably (Docker, Hetzner, Dokploy) as well as ship on Vercel.

WHAT I DO

- ▶ **LLM / AI app development** — multi-agent systems, RAG pipelines, function/tool calling, Claude & Gemini integrations, prompt & context engineering, output evaluation
- ▶ **Full-stack web apps** — Next.js (App Router, Server Actions), React, TypeScript, Tailwind — end-to-end with auth, dashboards, and payments
- ▶ **APIs & data** — Node.js REST APIs, WebSockets / real-time, PostgreSQL, Supabase, Prisma
- ▶ **Deployment & self-hosting** — Vercel, Docker, Hetzner + Dokploy, Railway, n8n automations

TECHNICAL SKILLS

AI / LLM	Multi-agent systems, RAG pipelines, tool/function calling, prompt & context engineering, output evaluation, NLP · Anthropic Claude API · Google Gemini API · MCP
Frontend	Next.js (App Router, Server Actions), React, TypeScript, JavaScript (ES6+), React Native, Tailwind CSS, Zustand, Redux
Backend	Node.js, REST APIs, WebSockets, FastAPI / Python (<i>AI-assisted workflow</i>), Prisma
Databases	PostgreSQL, Supabase, Prisma ORM, Redis
Infra / DevOps	Docker, Vercel, Hetzner + Dokploy (self-hosting), Railway, n8n, GitHub Actions (CI/CD)
Also	Data scraping & analysis (Kafka, Elasticsearch — research), multilingual apps (Arabic / Darija / French)

SELECTED WORK

FASL — LegalTech AI Platform · Co-founder & Lead Engineer

Next.js · Python · FastAPI · Anthropic Claude API · RAG · n8n · fasl.ma

- Built a **multi-agent AI pipeline** that drafts legal appeals end-to-end: case analysis → document retrieval → draft generation → polished legal memo, powered by Claude.
- Engineered a **RAG pipeline over Moroccan legal codes** to ground every output and minimize hallucination in a domain where accuracy is non-negotiable.
- Live product with strong organic traffic (**58.4K search impressions / 28 days**, avg position 6.2) and inbound interest from practicing lawyers; actively onboarding a pilot pipeline of firms.

Magical Hekaya — Consumer AI Product · Founder

Multi-LLM pipeline · Structured output contracts · Print-on-demand · magicalhekaya.com

- Founded and shipped a **live consumer AI platform with real paying customers** that generates personalized illustrated children's books — photo-based character generation, AI narration, print-on-demand fulfillment.
- Solved long-horizon narrative consistency with **structured output contracts** between agents and systematic context engineering across a multi-LLM pipeline.
- Owned the full product: multilingual SEO content (44K impressions / 3 months), user feedback loops, COPPA/GDPR considerations.

Belmo — K-Beauty E-Commerce · Founding Engineer

Next.js · TypeScript · Prisma · PostgreSQL · Hetzner + Dokploy (self-hosted) · belmo.ma

- Built and self-host an Arabic-first RTL storefront tuned for Morocco (cash on delivery, 24–48h delivery): **818 registered clients and 629 orders in the first two months**.

RESO Khdma — WhatsApp AI Job-Matching · Freelance delivery

Google Gemini SDK · WhatsApp Business API · Semantic search

- Built and delivered a **conversational AI agent on WhatsApp** matching job seekers to openings via **semantic search** and **tool calling with JSON-schema contracts** (DB queries, title matching, account creation).
- Handled **multilingual NLP** — Arabic, Darija, and French in one conversational flow for a non-technical user base.

WebTrade — Real-Time Trading Platform · Freelance (build + maintenance)

React · Next.js · TypeScript · Supabase · WebSockets

- Built a **real-time trading platform** with **WebSocket-driven live price streaming** to candlestick charts at sub-100ms render latency.
- Implemented **secure transaction logic** (funds locking, race-condition prevention) handling **real money** for real users — and maintain it in production today.

Magic Hands — Learning Management System · Freelance delivery

Next.js · Node.js · Payment integration

- Built a full LMS from scratch serving **~500 students**: modular courses (video, PDF, rich text, quizzes), anti-cheat detection (tab-switch / copy monitoring), attendance tracking, and integrated payments.

Maroc Fournisseurs — B2B Marketplace · Freelance delivery

Next.js · PostgreSQL · Prisma · Algolia · TypeScript

- Built a B2B marketplace connecting ~500 service providers with sub-second Algolia search, real-time negotiation chat, and complex many-to-many data modeling.

TAGi — NFC Networking App · Lead Developer

React Native · Next.js admin dashboard

- Led development of a cross-platform React Native app with NFC-powered contact sharing, plus a Next.js admin dashboard with RBAC; defined the team's Git workflow and CI/CD.

EDUCATION

M.Sc. — Big Data & Artificial Intelligence

Ibn Zohr University · 2023 – 2025 Thesis: Solar Panel Defect Detection (YOLO + PSO) — 96.96% mAP50; submitted to AISDS'2025

B.Sc. — Computer Science

Ibn Zohr University · 2018 – 2021

EXPERIENCE & LANGUAGES

Computer Science Teacher

Ministry of National Education, Agadir · 2021 – Present Teaching ~500 students a year (2,000+ so far); mentoring new developers.

Languages

Arabic & Darija Native · French Fluent · English Fluent