Aymen Belkadi

Full-Stack Developer | Web, Mobile & AI Agents

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Profile

Full-stack developer and third-year Computer Engineering student (AI Engineering track) building production web, mobile and desktop applications with Next.js, React Native, NestJS and Node.js, plus AI features such as RAG pipelines and LangChain agents. Completed the Thirduni x LangChain agents program and delivered work on three team projects.

Technical Skills

- **Languages:** JavaScript, TypeScript, Python, Dart, SQL, Java
- **Frontend & Mobile:** Next.js, React, React Native/Expo, Tailwind CSS, Electron
- **Backend:** Node.js, NestJS, FastAPI, Django REST Framework, Spring Boot, JWT auth
- **Databases:** PostgreSQL, Supabase, Prisma, SQLite, MongoDB, ChromaDB
- **AI & Agents:** LangChain, tool-calling agents, MCP, RAG, Mistral AI, Gemini, computer vision
- **DevOps & Tools:** Docker, Git, GitHub Actions, Cloudinary, Vercel, Railway

Training & Certification

Thirduni x LangChain: Building AI Agents *2026*
Certificate of Completion, presented by the U.S. Embassy Algiers

- Built agents with LangChain: foundational models, prompting, tools, web search, memory, multimodal input, MCP, runtime context and multi-agent systems.
- Capstone work in teams across three projects:
  - **PawLink**: animal rescue and adoption platform with map-based case reporting and AI triage; **backend developer** (Node.js).
  - **Level Up**: **mobile developer**.
  - **Sign-Bridge**: assistive sign-language app; built the **AI agent** (FastAPI, Mistral, Gemini/Gemma, Pydantic, SQLite, Docker) that turns recognized signs into sentences.

Experience

Voluntary Intern, Full-Stack Developer *Jul – Aug 2026*
Haut Commissariat à la Numérisation (HCN) Algiers

- Contributed to a government digitalization project on confidential national statistics (Spring Boot, React, Docker).

Co-founder, Full-Stack & Mobile Developer *2025 – Present*
Massar Agency Algiers

- Deliver web, mobile and brand-identity projects for Algerian SMBs, from scoping to deployment.
- Shipped offline-first desktop and mobile products (below) including licensing, auto-update and database sync.

Selected Projects

- **HireAI** (Next.js, NestJS, FastAPI, Supabase, LiveKit): AI recruitment SaaS with CV parsing and fit scoring, voice interview agents in FR/AR/EN, quota guards, rate limiting and candidate dashboards.
- **STAT-DZ** (Spring Boot, React, PostgreSQL): national statistics dashboard covering all 58 wilayas and 11 domains for a government client.
- **EdenStore** (Electron, React, Django, SQLite/Supabase): offline-first perfume shop management with sync, loyalty system and bottle-mixing logic.
- **PhoneMAG** (Electron, React, Django): Windows POS for phone retail with Keygen licensing and auto-updates via GitHub Releases.
- **CRBApp** (React Native, Expo): fan app for CR Belouizdad, prepared for App Store submission.

Education

Computer Engineering (Ingéniorat), AI Engineering specialization *2023 – 2028*
USTHB, Algiers

Hackathons & Languages

Hackathons: MobAI'26, Tech 4 Connect 2026 (Huawei), Meta Global AI Developer Hackathon.
Languages: Arabic (native), French (fluent), English (fluent).