

Abdellah BOUSKRI

Software Engineer | Backend & AI Applications | Final-Year Student

Seeking: 6-month PFE Internship · Starting January 2027

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PROFILE

Final-year software engineering student who builds **end to end**, from design to deployment, across APIs, mobile and LLM-based features, with **security**, **performance** and **clean architecture** built in from the start. Two internships and several projects taken from idea to working product. Seeking a **6-month PFE internship from January 2027** in **backend or AI engineering**.

EDUCATION

Engineering Degree – Software Engineering & IS Integration (ILISI) · FST Mohammedia Sep 2024 – Jun 2027 (expected)
DEUST – Mathematics, Computer Science & Physics (Bac+2) · FST Mohammedia Sep 2022 – May 2024

PROFESSIONAL EXPERIENCE

Full-Stack Software Engineer Intern Apr 2026 – Jul 2026
Metaverse · Casablanca, Morocco

- Built **Guide App**, an AI travel planner, end to end: **React Native (Expo)** app, **Node.js/Express + MongoDB API**, **Next.js** admin.
- Designed a **dual-agent LLM pipeline** with provider-agnostic models, retry/fallback logic and **per-stage latency tracking** to produce reliable geolocated itineraries.
- Implemented **OTP and trusted-device authentication**, **RBAC** and **Stripe** subscriptions; set up **CI/CD** (GitHub Actions, Docker, EAS) with **ESLint** and **SonarQube** quality gates.

Full-Stack Developer Intern Apr 2025 – Jun 2025
LIAD TECH · Remote, Paris, France

- Delivered **HealthCare**, a multi-role telemedicine platform (patients, doctors, administrators) with appointment booking, medical records, secure messaging and video consultations.
- Engineered **REST APIs (Node.js, Express, MongoDB)** with **JWT auth and RBAC**; built the **Next.js / TypeScript** frontend in an Agile workflow on Azure DevOps and GitHub.

KEY PROJECTS

VeloStore – E-commerce platform with an AI shopping assistant
ASP.NET Core 8 · SQL Server · PostgreSQL + pgvector · Redis · Ollama

- Built a **RAG-powered shopping assistant** that turns natural-language queries into recommendations grounded in the live catalog via **pgvector semantic search**; LLMs are hot-swappable between local (Ollama) and cloud (Groq, Gemini).
- Designed a **three-tier cache (Memory → Redis → Database)** that cut database query load by **over 95%** under sustained traffic.

Salon-Go – Barber booking application
NestJS · PostgreSQL · Prisma · Redis · MinIO · WebSockets

- Architected a modular **NestJS REST API** with **four-role RBAC**, **Redis caching**, **real-time WebSocket notifications** and **OpenAPI/Swagger**.

NeuroTraffic-RL – Adaptive traffic-light control with reinforcement learning
Python · Gym · SUMO/TraCI · PPO · DQN

- Trained **PPO and DQN agents** in a custom **Gym environment** to control traffic lights, **beating fixed-time baselines** on vehicle waiting time.

Pathfinding Visualizer – Algorithm visualizer with a C++ backend
C++17 · POSIX sockets · React · TypeScript

- Built an **HTTP server on raw POSIX sockets** running BFS, Dijkstra and A*, with a real-time **React** client that animates each step.

TECHNICAL SKILLS

Languages	TypeScript, Python, C#, Java, SQL, C++
Backend & APIs	Node.js, NestJS, Express, ASP.NET Core, REST, JWT/RBAC, WebSockets
Cloud & DevOps	AWS, Azure, GCP, Docker, GitHub Actions, Azure DevOps, SonarQube, Git, Linux
Databases	PostgreSQL, SQL Server, MongoDB, Redis, pgvector, Prisma
AI & LLM	LLM pipelines, RAG, prompt engineering, Ollama, reinforcement learning (PPO, DQN)
Web & Mobile	Next.js, React, React Native, Expo, Tailwind CSS, i18n (incl. RTL)

CERTIFICATIONS & LANGUAGES

Cisco CCNAv7 – Introduction to Networks · Cisco Networking Academy – Advanced C++ Programming
Arabic (Native) · French (Fluent) · English (Professional) · Driving licence (Category B)