FERKIOUI Akram

AI Student & Full-Stack Developer

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Summary

Fourth-year Artificial Intelligence and Applications engineering student and Full-Stack Developer with professional experience building production SaaS applications. Strong background in TypeScript, React, Next.js, Node.js, NestJS, PostgreSQL, Prisma, and Docker, with experience across frontend architecture, backend APIs, databases, and deployment. Strongly interested in applied AI engineering, particularly LLM applications, Retrieval-Augmented Generation (RAG), and agentic systems, with ongoing hands-on learning in these areas.

Technical Skills

Languages: TypeScript, JavaScript, Python, SQL
Frontend: React.js, Next.js, Tailwind CSS, HTML5, CSS3, Zustand, shadcn/ui
Backend: Node.js, NestJS, Express.js, REST APIs
Databases & ORM: PostgreSQL, Prisma, Drizzle, Supabase, Firebase
AI & Data: LLM Applications, RAG, AI Agents, LangChain, LangGraph, Embeddings, Vector Databases, NumPy, Pandas, Matplotlib
Cloud & DevOps: Google Cloud Platform (GCP), Cloudflare R2, Docker, Linux, Git, GitHub Actions, Nginx, CI/CD
Languages: Arabic (Native), French (Intermediate), English (Professional)

Professional Experience

JeThings **Feb 2026 – Oct 2026**
Full-Stack Web Developer *Apr 2026 – Oct 2026*

- Own the NestJS backend service, implementing CRUD operations with Prisma ORM as the primary data layer for the product.
- Designed and documented the API contract between the dynamic storefront frontend and backend, including the end-to-end order flow.
- Coordinate technical specifications and integration requirements across two engineering teams and separate VPS environments.

Front-End Web Developer *Feb 2026 – Apr 2026*

- Architected J-Store, a multi-tenant SaaS platform for automatically generating online storefronts using Vite Module Federation.
- Built a React host that dynamically loads independently deployed template bundles at runtime using per-store JSON configuration from a two-backend architecture.
- Structured a monorepo with shared TypeScript packages, Zustand, shadcn/ui, GitHub Actions CI/CD, and Nginx-based deployment to a production VPS.

Ericsson Algeria **Apr 2026**
Academic Discovery Intern *Algiers, Algeria*

- Completed a one-week institutional internship across Ericsson's RAN, Engineering, Transmission, Optimisation and HSE teams, tracing the full telecom site deployment lifecycle.
- Identified Bill of Quantities generation and PCI script parameter filling as automation targets, and proposed a RAG-based agent running on locally hosted models to meet data confidentiality constraints.

Revolution Agency **Dec 2025 – Feb 2026**
Front-End Web Developer

- Developed responsive web interfaces using React and Next.js and translated UI/UX designs into reusable components.
- Improved website performance and accessibility across delivered interfaces.

GDSC ENSTA (CODEC ENSTA) **Dec 2023 – Jul 2025**
Head of UI/UX Department

- Led a team of designers and organized UX workshops and technical training sessions.
- Coordinated an internal UI competition for the school platform.

Projects

Devlai – AI-Powered Infrastructure & SRE Platform *In Progress*

NestJS, FastAPI, Python, LangGraph, PostgreSQL, Docker, Linux, SSE

- Designing an AI-powered infrastructure platform for monitoring and analyzing Linux VPS environments through real-time telemetry and AI-assisted workflows.
- Designed a multi-service architecture with a NestJS core API, Python/FastAPI AI service, PostgreSQL database, and dedicated VPS monitoring agent.
- Exploring agentic infrastructure workflows using LangGraph, combining infrastructure context, telemetry, and backend tools for AI-assisted operations.

Education

National Higher School of Advanced Technologies (ENSTA) **2023 – 2028**

State-Certified Engineer in Artificial Intelligence and Applications *Algiers, Algeria*

4th Year

Relevant Coursework: Algorithms & Data Structures, Artificial Intelligence, Software Engineering, Operating Systems, Database Systems, Data Analysis, Machine Learning

Programs & Professional Development

Thirduni – Selected Participant *2026*

- Selected as 1 of 400 participants from 27,000 applicants for a four-week AI program funded through the U.S. Department of State's Alumni Engagement Innovation Fund, focused on developing practical AI skills, building a real project, and learning alongside mentors and innovators from around the world.

IBM RAG and Agentic AI Professional Certificate – Coursera *In Progress*

- Hands-on professional program covering Retrieval-Augmented Generation, vector databases, LLM applications, tool calling, LangChain, LangGraph, agentic systems, and Model Context Protocol (MCP).