

Ahmed Fateh Guendouz

Chief Technology Officer & AI Engineer — RAG Systems, Full-Stack Products & Security

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PROFESSIONAL SUMMARY

AI Engineering student at ENSIA and Co-Founder & CTO of Ratee. Takes AI-driven products from architecture through production — backend, infrastructure, and security — for government institutions, startups, and consumer apps, translating complex technical work for non-technical stakeholders along the way.

EXPERIENCE

Co-Founder & Chief Technology Officer (CTO) — Ratee

2025 – Present

Ratee (live at www.ratee.app) is a mobile platform where consumers write and browse authentic product reviews to make more informed purchase decisions; the app is currently transitioning into open beta testing.

- Own end-to-end security and DevOps for the production infrastructure, including VPS hosting, Tailscale VPN access, Docker containerization, GitHub Actions CI/CD pipelines, Nginx, and Cloudflare Tunnel/DNS management.
- Designed and built the Flutter mobile application end-to-end, including UI/UX design (3-month design cycle), a custom widget library, repository-pattern data-model architecture, and unit/integration test coverage, while supervising the Django backend.
- Built and deployed the product's marketing website using Next.js.

Full-Stack Engineer & System Architect — SIKDS, MESRS

Feb 2026 – Present

SIKDS (Secure Institutional Knowledge & Distribution System) is a ministry-scale platform enabling the Ministry of Higher Education and Scientific Research (MESRS) to securely distribute official documents to subordinate institutions, enforce fine-grained access control, and search the institutional archive through AI-powered semantic search.

- Architected and implemented the end-to-end RAG pipeline, including an asynchronous, Redis-backed job pipeline for document text extraction (with OCR fallback) and chunking, task-aware embedding optimization, and semantic reranking; built the embedding/indexing dashboard and the user-facing RAG interfaces, and laid the groundwork for response streaming.
- Reviewed the platform's security architecture and authored document-protection features, including signed PDF watermarking and embedded canary tokens for download traceability; proposed additional traceability strategies, including steganographic watermarking.

AI Engineering Intern — rag.mesrs.dz, MESRS

Jun 2026 – Jul 2026

rag.mesrs.dz is a national-scale conversational AI assistant that helps Algerian baccalaureate graduates navigate the annual university enrollment process in natural language, launched publicly immediately after the release of baccalaureate results.

- Designed guardrails to mitigate prompt-injection and jailbreak attempts, and enforced isolation across the system's agentic architecture.
- Led a security review of the agentic system and validated the response-streaming pipeline, confirming that responses stayed within scope without hallucination or unintended information disclosure.

Lead Developer — Taura

Summer 2025

Secure desktop ERP for nutraceutical manufacturers, production sites, and SMEs, covering inventory, finance, clients, and suppliers.

- Built the desktop client with React, Tailwind CSS, and Tauri, selected over Electron for a lighter footprint and better performance.
- Implemented hardware-bound database encryption; the product is in active daily use at a nutraceutical manufacturing facility, with regular releases shipped based on user feedback (maintained through v1.3.1+).

Cybersecurity Lead — SECAI Science Club, ENSIA

2024 – Present

- Run workshops and technical sessions on network security and cryptography, and grow a student community around cybersecurity.

SELECTED PROJECTS

Edux — School Management Platform

- ERP-style platform helping private schools manage day-to-day operations with their clients. Built the Django backend, including authentication, custom middleware, and password-reset workflows; implemented and deployed a fully functional REST API to a VPS.

Ouedkniss Used-Laptop Price Predictor (laptopdz.leapcell.app)

- Public price-prediction application built on scraped marketplace listings, using regression modeling and association-rule mining; results led to an official invitation to Ouedkniss's headquarters. (Python, Scikit-learn)

DNS Tunneling Detection

- Detection and attack-simulation system for DNS tunneling techniques, covering iodine, dnscat2, and dns2tcp. (Python, network security)

Adaptive Exam-Prep System

- Active-learning system that selects practice questions to maximize a student's knowledge acquisition. (Python, active learning)

EDUCATION

National Higher School of Artificial Intelligence (ENSIA)

Sept 2023 – Present

Sidi Abdellah, Algiers

State Engineering Degree in Artificial Intelligence & Master's Degree in Data Science

Specialization: artificial intelligence, machine learning, deep learning, NLP, computer vision.

SKILLS

AI/ML & RAG: LLM applications, Retrieval-Augmented Generation (RAG), semantic search & embeddings, reranking, agentic systems, prompt-injection/jailbreak mitigation, Scikit-learn

Languages & Frameworks: Python, JavaScript/TypeScript, Dart, React, Next.js, Framer Motion, Flutter, Django, Laravel, Tailwind CSS

DevOps & Infrastructure: Docker, GitHub Actions (CI/CD), Nginx, Cloudflare (Tunnel & DNS), Tailscale VPN, Redis

Security: Application security, network security & cryptography, secure document watermarking & traceability

Professional: Communication, team leadership, product management, adaptability, problem-solving

LANGUAGES

Arabic (native) | French (fluent) | English (professional working proficiency)