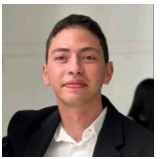


Mohamed Yassine Hemissi

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PROFILE

Problem-solver at heart with six years of hands-on software development experience. AI engineering student specializing in backend systems and LLM integration, with proven track record of quickly learning new technologies to deliver production solutions for 15+ clients. Passionate about turning complex requirements into elegant, scalable architectures. Thrives in ambiguous situations where technical creativity meets real-world constraints.

EDUCATION

ESPRIT: Private Higher School of Engineering and Technology | *AI Engineering Degree (GPA: 3.7)* **2024 – Present (Expected 2027)**

Focus: Theoretical & applied AI, data-driven systems, and software engineering for real-world constraints; plus probability theory (discrete/continuous random variables, Markov methods), calculus, linear optimization, and graph theory.

University of Science of Tunis | *Licence's Degree, Computer Science (GPA: 3.7)* **2021 – 2024**

Focus: Data structures and algorithms, graphs, computer networks, compilers, automata theory, binary systems, algebra, calculus, applied software engineering and historical legal aspects of computer science.

PROFESSIONAL EXPERIENCE

Freelance Software Engineer **2019 – 2025**

- Architected full-stack B2B coordination platform for Seagull Consulting connecting businesses with courier networks; solution successfully pitched to Attijari Bank Leasing (First important client)

- Delivered backend services and APIs for 15+ clients across various domains, making pragmatic architecture decisions to optimize for scalability and cost efficiency

- Collaborated with non-technical stakeholders to translate business requirements into technical solutions, favoring open-source to minimize operational costs

Artify Inc | *Software Development Intern (Twice)* **Jan 2024 – Jul 2024 & Jun 2025 – Aug 2025**

- Designed and implemented full backend architecture from scratch for producer content management platform, including automated ingestion pipelines, database design, and APIs feeding Artify's main streaming service

- Collaborated with CEO to deliver content management features enabling onboarding of 100+ media producers to the platform

Sagemcom Tunisia | *Software Development Intern* **Jun 2023 – Aug 2023**

- Built internal tooling to automate KPI discovery and production data tracing, reducing time required for factory engineers to generate BI dashboards

- Worked in agile/Scrum team under senior engineer mentorship, contributing to code reviews and maintaining engineering best practices.

Bubble Fest: First EDM Festival in Tunisia | *Chief Technology Officer* **Apr 2022 – Jul 2022**

- Designed and operated system architecture capable of handling 30,000+ user requests during high-demand ticket sales.

- Delivered a full-stack open-source solution, reducing technology costs by 95% while ensuring system reliability.

SELECTED PROJECTS

Metabolic Health Decision-Support System (Insulin Resistance) | University Project | *ESPRIT* **2025**

- Designed and implemented an academic AI-based decision-support system analyzing lifestyle and nutrition data related to insulin resistance.
- Integrated modular backend pipelines, multimodal food analysis, and evaluation workflows with emphasis on explainability and non-diagnostic outputs.

- Built a nutritional extraction pipeline to build a tunisian dataset used for context augmentation, described in a short paper.

DeglaAI | University Project | *ESPRIT* **2025**

- Designed and integrated AI components using IoT, image, and audio data for early palm tree disease detection.
- Integrated the system into a palm ERP for data-driven decision support.

- Ranked **Top 5** at the 2025 APII Incubator Competition and received prospective startup coaching.

MTA to Discord Webhook Library | Open-source Project **2020**

- Built a lightweight library to create and send Discord webhooks from MTA scripts; adopted by the community (11 GitHub stars).
- First OOP project: provided both OOP and functional APIs to fit different scripting styles and improve developer ergonomics.

SKILLS

Programming Languages: Python, TypeScript, Java, Lua, C, Bash, SQL (CSQL, PLSQL)

Frontend & Frameworks: React (Vite, TanStack, State Management), Next.js

Backend & Databases: Node.js, NestJS, Django, Flask, REST APIs, RPC (tRPC), MCP, MongoDB, Cassandra, Vector Databases (Chroma, Qdrant)

AI & Machine Learning: Large Language Models (LLMs) (LangGraph, OpenAI SDK, AI SDK), PyTorch, Computer Vision (CNN, ViT, DM)

Infrastructure & DevOps: Linux Server Administration (UFW, Nginx), Docker, SSL/TLS, AWS (Lambda, S3), Vercel, Render, Netlify, Sentry

Engineering Practices: Git, GitHub Actions, Agile/Scrum, TDD/Testing (Jest, Playwright), DRY, WCAG, AI-Assisted Development

CERTIFICATIONS

IBM (The Knowledge Project) — Artificial Intelligence (AI Enterprise Workflow) L2 (Dec 2025) | IBM — Delivering Quality Work with Agility (Dec 2025)

| AWS — AWS Educate Machine Learning Foundations (Jun 2025) | DataCamp — Associate AI Engineer for Developers (Sep 2025)

LANGUAGES

English (Professional Working Proficiency) | French (Native or Bilingual Proficiency) | Arabic (Native or Bilingual Proficiency)

ASSOCIATIONS & ACTIVITIES

Unity Events | Co-founder | Organized and managed teams, musical events and booking international artists. **2022 – 2024**

IEEE — Computer Science Chapter | Member | Participated in CP events (IEEEExtreme) **2021 – 2023**

Rotaract RCTB | Founding Protocol Chief | Executive member overseeing coordination and organizational governance. **2021 – 2022**