

Mahmoud Amri

Computer Engineering Student | Final-Year Engineering Cycle

mahmoud.amri@enicar.ucar.tn | +216 52 302 716 | linkedin.com/in/mahmoud-amri | github.com/Mahmoud35amri

PROFILE

Final-year Computer Engineering student at ENICarthage, focused on applied AI and the design of complex systems. Currently working on agentic AI — multi-agent architectures and tool orchestration — and building scoring and ranking pipelines in Python. Seeking a final-year graduation internship (PFE) in AI/ML or data-driven software. Rigorous, autonomous, and drawn to problems where the algorithm is the hard part.

TECHNICAL SKILLS

AI & Data: PyTorch, TensorFlow, CUDA, data pipelines, scoring & ranking, genetic algorithms, multi-engine processing
Languages: Python, Java (OOP, Spring Boot, JDBC), TypeScript / JavaScript, C# / .NET, SQL, HTML / CSS
Frameworks & Tools: Next.js, React, Angular, Node.js, Spring Boot, Android, JPA, Prisma ORM, Maven, Git, GitHub, Docker
Concepts: OOP, REST API, client-server architecture, scheduling, combinatorial optimization
Databases: PostgreSQL, Oracle, MySQL, SQLite, MongoDB (NoSQL)
AI Tools: Claude Code, Claude Cowork — daily use for 8+ months
Spoken languages: Arabic (native), French (B2), English (B2)
Qualities: Rigor, autonomy, analytical mindset, teamwork, adaptability

PROFESSIONAL EXPERIENCE

Software Developer Intern — Fab619 Full-Stack / C# July – August 2026

- Contributed to ioSender, a fork of terjeio/ioSender (v2.0.47) — a C#/.NET G-code sender for grblHAL and Grbl controllers.
- Designed an offline cutter radius compensation module (CRC, G41/G42/G40) and tool wear compensation: G-code transformation, segment offsetting, corner handling, and arc intersection logic.

Software Developer Intern — Tunisie Télécom TypeScript / React / Node.js July – August 2025

- Developed an internal web application for managing the company's business processes: React/TypeScript frontend and Node.js back-end API.
- Designed the interface and data flows in collaboration with internal teams, from specification through deployment.

ACADEMIC & PERSONAL PROJECTS

Company Match Engine — LLM Scoring Pipeline AI / Data Python, SQLite

- Four-stage resumable pipeline (ingest, heuristics, web enrichment, LLM scoring) over 17,000 companies, with content-hash caching, async fetching under a robots.txt-respecting crawler, rate-limit pacing and cross-provider failover.
- Calibrated scores across models after measuring a 12-point inter-model bias, and constrained the prompt to prevent the model attributing skills the candidate does not have.

InfluBoost — Influencer Analysis & Scoring Pipeline AI / Data Python, TypeScript

- Architecture of 4 chained engines (collection, cleaning, scoring, visualization) with a weighted scoring methodology and an interactive frontend.

Teriak Production Load Planner — LeanX 1.0 Hackathon Algo / Optimisation April 2026

- Job Shop scheduling web app (Next.js, Prisma, SQLite) with a genetic algorithm, interactive Gantt chart, and Excel import/export, delivered in 24 hours.

EniGov — Student Governance Platform Production enigov.tn

- Designed and developed, as part of a team, a platform dedicated to student governance, deployed in production at ENICarthage.

GOLivraison — Delivery Supervision Mobile App Android, Spring Boot

- 3-tier architecture (Android/Retrofit, JWT + BCrypt REST API, Oracle) with real-time messaging and push notifications (FCM).

EDUCATION

Engineering Degree in Computer Science 2024 – Present
École Nationale d'Ingénieurs de Carthage (ENICarthage)

Preparatory Cycle — Physics-Technology 2022 – 2024
Institut Préparatoire aux Études d'Ingénieurs de Monastir (IPEIM)

Baccalaureate — Technical Sciences 2022
Lycée Secondaire Sbikha

EXTRACURRICULAR ACTIVITIES

- Lead — All-Terrain Model Team — Carthabot 1.0 (ENICarthage robotics event): led the design and construction of the physical model.
- Active Member — IEEE ENICarthage Student Branch: organized technical events and knowledge-sharing sessions.