

Mohamed Maamar

Full-Stack & AI Developer • Tunis, Tunisia

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SUMMARY

Results-driven full-stack developer delivering end-to-end products. Comfortable with data/AI pipelines, microservices, and CI/CD automation; team-minded, quality-focused, and autonomous.

EDUCATION

Sep. 2020 – Present **ESPRIT**, Tunis — Web Engineering
Jul. 2020 **Mathematics Baccalaureate**, Tunis

CERTIFICATIONS

- **Cisco Networking Academy** — Python Essentials 1; Python Essentials 2; JavaScript Essentials 1; JavaScript Essentials 2; HTML Essentials; CSS Essentials; Data Science Essentials; Introduction to Data Science.
- **Apollo** — Graph Developer Associate.
- **Languages** — French (B2), English (B2).

EXPERIENCE

Intern — Deep-Cortex (Full-Stack & AI) Jul. 2025 – Aug. 2025

- Built a fast and modular UI in **React** + **TypeScript** (Vite, Tailwind).
- Developed a **Node.js/Express** backend with **MongoDB** for user accounts, scraped data, and AI insights.
- Created a **Python/FastAPI** microservice handling data and AI tasks using **Scrapy**, **Playwright**, and **Celery**.
- Implemented an end-to-end data pipeline: ingestion → cleaning → structuring → persistence → integration with Node API.
- Integrated **LangChain** with **OpenAI** and **Google Gemini** for summarization, Q&A, and classification, with caching and orchestration.

Intern — FinInfoSolution, Tunis Jul. 2023 – Aug. 2023

- **Full-stack** internship (**React.js** & **Spring Boot**) on a **microservices** web app for **corporate tax calculation**.
- Designed and implemented a **tax rules engine** (sector-specific) exposed via **REST APIs** and consumed by the front end.
- Built an interactive **capital evolution chart** (contributions, withdrawals, dividends) with dynamic updates.
- Front-back integration: tax forms, REST calls, state/error handling, and data consistency.

ACADEMIC PROJECTS

Intelligent Emergency Department System — Project Lead & Full-Stack

2024 – 2025

Spring Boot microservices (Eureka, Gateway), **RabbitMQ**; **Pharmacy & Prescriptions** modules (Express + React, RBAC); ML models (patient prioritization, waiting-time prediction, weekly scheduling); CI/CD with **Jenkins**, **SonarQube**, **Nexus**, and automated Docker builds.

Unified Gaming Platform (Web + Desktop + Mobile)

2022–2023

Symfony / CodeNameOne / Java / JavaFX. A multi-platform ecosystem (purchases, coaching, score sharing) built on a unified database.

EXTRACURRICULAR ACTIVITIES

INSAT Press Club — Member; VP & Chief Photographer (2022–2023)

2020 – 2023

Active member for three years (2020–2023). Served as **Vice President** and **Chief Photographer** during the **2022–2023** academic year only. Covered major university and national events (e.g., IEEE Congress, RobOlympics Tunisia) as a photographer. This experience reinforced leadership, teamwork, and a strong passion for photography and visual storytelling.

TECHNICAL SKILLS

Front end	React, TypeScript , Vite, Tailwind CSS, HTML5, CSS3, JavaScript, JavaFX, CodeNameOne
Back end	Node.js, Express.js, Spring Boot, Symfony, PHP, Java, C/C++
Data & Databases	MongoDB, MySQL/SQL, JDBC, ETL & data cleaning
Python/AI	FastAPI, LangChain, OpenAI, Google Gemini, pandas, scikit-learn, XG-Boost
Automation & Web Scraping	Scrapy, Playwright, Celery (workers/queues), REST APIs
DevOps	Git/GitHub, Docker, Jenkins, SonarQube, Nexus, CI/CD pipelines
Architecture	Microservices, RBAC, messaging (RabbitMQ), caching, observability (basics)