Mahdi JENHANI

Software Engineer & Data Science / AI Enthusiast

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Summary

Motivated final-year Software Engineer & Data Science / AI enthusiast at ENICarthage, seeking an end-of-studies internship.

Education

National Engineering School of Carthage   **Sep 2023 – Jul 2026**
National Degree in Computer Engineering   *Tunis*

National Higher Institute of Technological Studies   **Sep 2020 – Jul 2023**
National Degree in Information Technology (undergraduate program)   *Kelibia*

Experience

Cabinet Vital   **Jul 2025 – Aug 2025**
Data Scientist Intern   *Remote*

LeadSense — Insurance Lead Prioritization Dashboard | *[GitHub](#)*

- Engineered a production-ready Streamlit dashboard with specialized modules to analyze 16,000+ insurance prospect submissions, enabling data-driven lead prioritization and conversion tracking.
- Cleaned and preprocessed a messy dataset using Pandas and NumPy to prepare it for analysis.
- Implemented a sophisticated lead scoring system with time-decay algorithms and multi-factor evaluation (coverage, demographics, contact quality) to prioritize fresh, high-potential leads.
- Implemented unsupervised learning with clustering using scikit-learn and created Plotly visualizations with real-time conversion tracking, improving lead targeting efficiency and supporting marketing strategies.

Tech stack: Python, Pandas, NumPy, Plotly, Scikit-learn, Streamlit

Tunisie Telecom   **Jul 2024 – Aug 2024**
Full-Stack Developer Intern   *Kelibia*

ServiceHub — Customer Service Management Platform

- Built a full-stack web application to manage customer service requests, streamlining communication between clients and employees.
- Designed an intuitive, responsive UI to allow customer support staff to efficiently track and respond to tickets.
- Integrated backend functionality using Express.js to handle API requests, user authentication, and data management

Tech stack: React, Express.js, Node.js, MongoDB

HorizonLux   **Feb 2023 – Jun 2023**
Full-Stack Developer Intern   *Kelibia*

ProjectFlow — Project Management System

- Created a web application for project and task management, with a focus on enhancing client relationships and streamlining collaboration.
- Structured a responsive, intuitive, and polished UI using React and the Ant Design library, enabling clients to easily track project progress.
- Leveraged Supabase to design and manage a RESTful API, implement secure user authentication, and handle data storage and retrieval using a PostgreSQL database

Tech stack: React, Ant Design, JavaScript, Supabase, PostgreSQL

La Poste Tunisienne   **Jan 2022 – Feb 2022**
Full-Stack Developer Intern   *Kélibia*

PosteMarket — E-Commerce Marketplace for Merchants

- Developed a full-stack web application *PosteMarket* to enable e-commerce merchants to sell products online and manage deliveries via La Poste Tunisienne.
- Implemented user authentication, profile management, and product listing features for both merchants and customers.
- Established an admin panel to manage users, products, categories, orders, and comments, improving internal data management and operational efficiency.

Tech stack: PHP, JavaScript, jQuery, Bootstrap, MySQL

Projects

MovieMate — Full-Stack Movie Recommendation Platform | *GitHub*
- Built a full-stack movie recommendation platform called *MovieMate* with a polished, responsive UI.
- Constructed the frontend with React and Tailwind, providing personalized "For You" recommendations and a smooth user experience.
- Applied the backend to manage users, profiles, ratings, and watchlists.
- Designed a hybrid recommendation engine using machine learning technologies (PyTorch and scikit-learn) combining content-based and collaborative filtering.

Tech stack: React, TypeScript, Tailwind, Node.js, Prisma, JWT, FastAPI, PyTorch, scikit-learn, PostgreSQL, Docker, TMDB API

TalkFlow — Full-stack AI Chatbot | *GitHub*
- Engineered a prototype combining a Next.js frontend and FastAPI backend to deliver a fast, interactive assistant.
- Integrated RAG over uploaded documents using sentence-transformers embeddings, ChromaDB vector storage with optional JSON fallback, and Hugging Face models for cloud-based generation; developed orchestrated retrieval.
- Implemented streaming SSE chat for incremental responses, browser TTS/STT voice in/out, personality presets (e.g., Yoda, Pirate), and multilingual prompts for global users.
- Added file ingestion (PDF/MD/TXT), lightweight on-disk vector persistence, environment driven model configuration, and clear docs to enable local development.

Tech stack: Next.js, React, TypeScript, FastAPI, Python, Hugging Face Transformers, sentence-transformers, ChromaDB

Technical Skills

Languages: Python, Java, JavaScript, TypeScript, PHP, C/C++
Frontend: React, Next.js, Angular
Backend / APIs: Node.js, Express.js, Spring Boot, FastAPI, Prisma, JWT Authentication
Databases: PostgreSQL, MySQL, MongoDB, Supabase, Oracle(PL/SQL), ChromaDB
Machine Learning / Data Analysis: PyTorch, scikit-learn, Pandas, NumPy, Plotly, Streamlit, Hugging Face Transformers, sentence-transformers
Developer Tools: Docker, Git/GitHub, Jira
Cloud / Platforms: AWS (Cloud Practitioner Certification)

Leadership / Extracurricular

IEEE ENICarthage Student Branch   **Sep 2023 – Jun 2024**
Member   *ENICarthage*

The Changers Club   **Mar 2021 – Nov 2021**
Secretary General   *ISET Kelibia*

Languages

English: Advanced   **French:** Advanced   **Arabic:** Native