

Soumya AitMbark

Software Engineer

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PROFESSIONAL EXPERIENCE

AI Engineer — TechPal

Casablanca, Morocco | Mar 2025 – Sep 2025

Designed and developed an AI-powered intelligent legal assistant for Arabic legal language processing.

- Built the backend in Python and implemented dialogue management using Rasa.
- Implemented a Retrieval-Augmented Generation (RAG) pipeline with ChromaDB and SentenceTransformers for semantic search.
- Integrated AraBERT for Arabic legal text processing and LLaMA 3 for response generation.
- Developed the web front-end using React.

Full Stack Developer — EMSI

Casablanca, Morocco | Jul 2024 – Sep 2024

Designed and built an HR management platform using Spring Boot and Angular.

- Built the back-end architecture with Spring Boot, including a secured REST API.
- Developed a dynamic, responsive front-end interface with Angular.
- Implemented role-based authentication and authorization (Admin, Employee, HR).
- Created modules for managing employees, departments, absences, and performance evaluations.

Full Stack Developer — CDMA Solutions

Casablanca, Morocco | Aug 2023 – Sep 2023

Developed a web and mobile claims management application, "CDMA Expertise."

- Built and improved front-end and back-end interfaces using Laravel, PHP, Bootstrap, HTML, CSS, and JavaScript.
- Designed, optimized, and maintained databases using MySQL.

EDUCATION

Ecole Marocaine des Sciences de l'Ingénieur (EMSI)

Morocco

Engineering Degree in Computer Science and Networks — MIAGE Track

2022 – 2025

Lycée Abdelkhalek Torres

Morocco

Baccalauréat, Physics-Chemistry Sciences option

2020

TECHNICAL SKILLS

Programming Languages: Python, Java, C, C++,c#, JavaScript,php

Artificial Intelligence: Machine Learning, Deep Learning, Generative AI, Natural Language Processing (NLP), Retrieval-Augmented Generation (RAG), Large Language Models (LLMs)

Frameworks & Libraries: TensorFlow, Scikit-learn, Pandas, NumPy, Matplotlib, Keras, HuggingFace, LangChain, NLTK

Mobile Development: Flutter (Dart), Java

Project Management: Agile (Scrum)

Databases: Oracle, SQL Server, MySQL, Firebase

LANGUAGES

English: Fluent **French:** Fluent **Arabic:** Native