

DRAREZ ABDELTIF

AI & BIG DATA SPECIALIST |

SOFTWARE ENGINEER

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SUMMARY

Results-driven Software Engineer with 5+ years of experience specializing in Artificial Intelligence, Big Data architectures, and cloud-native software development. Proven track record in architecting real-time streaming data pipelines, deploying high-accuracy machine learning & LLM RAG models, and engineering resilient scalable enterprise systems.

PROFESSIONAL EXPERIENCE

- Software Developer — Ministry of Interior of Morocco

July 2024 - Present

 - Architected and maintained mission-critical internal software applications for government operational divisions.
 - Engineered secure, high-throughput data processing workflows ensuring compliance with national cybersecurity frameworks.
- Software Developer — Omega Capital

Sept 2023 - July 2024

 - Designed scalable financial technology solutions and portfolio tracking analytics engines.
 - Collaborated with cross-functional product teams to deliver automated reporting tools and resilient backend APIs.
- Web Developer — WebMarko

Oct 2022 - Dec 2022

 - Designed, developed, and deployed full-stack web applications including aticonsultingagency.com.
 - Executed end-to-end database modeling using Merise & UML, and delivered robust backends with Laravel 9, PHP/MySQL, and FilamentPHP.
- Web Developer — GEO Technologie et Innovation

Oct 2021 - Nov 2021

 - Developed interactive web modules and maintained database interfaces for client management systems.

FEATURED PROJECTS

- Real-Time Fraud Detection Engine

Built a streaming data pipeline processing 50K+ tx/sec with <100ms latency. Reduced false positives by 35%.

Tech Stack: Python, Apache Spark, Kafka, XGBoost, Redis, FastAPI
- LLM-Powered Document Intelligence

Engineered enterprise RAG search system across 2M+ documents achieving 94% retrieval precision.

Tech Stack: LangChain, OpenAI, Pinecone, FastAPI, React
- Predictive Maintenance IoT Platform

Developed sensor anomaly detection pipeline predicting equipment failures 72 hours in advance.

Tech Stack: PyTorch, TimescaleDB, Grafana, Docker

EDUCATION & ACADEMICS

- Engineering Degree in Artificial Intelligence & Big Data — ISGA Group

2025 - Present
- Bachelor's Degree in Business Intelligence (Licence Pro) — Higher School of Technology Fes (EST Fès)

2024 - 2025
- Software Engineering Program — ALX Africa

2023 - 2024
- Bachelor's Degree in Mathematics & Computer Science — Sidi Mohammed Ben Abdellah University

2021

TECHNICAL SKILLS & CERTIFICATIONS

AI & Machine Learning: PyTorch, TensorFlow, Scikit-learn, Hugging Face, LangChain, MLflow, OpenCV, YOLOv8

Big Data & Cloud: Apache Spark, Kafka, Airflow, dbt, Snowflake, Databricks, Delta Lake, AWS, GCP, Docker, Kubernetes, Terraform

Languages & Frameworks: Python, TypeScript, React, Next.js, FastAPI, PostgreSQL, Redis, PHP, Laravel, REST APIs, GraphQL

Certifications: Deep Learning Specialization (DeepLearning.AI), AWS Solutions Architect, Google Cloud Professional Data Engineer