

Mehdi Khabouze

AI Engineer

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PROFILE

AI engineer and founder of Khabex, a digital studio. I build production-grade AI systems (retrieval-augmented search, data pipelines) and secure network solutions, with hands-on experience delivering RAG systems that cut document search time by 70%. Multicultural background across Germany, Morocco and France; tutor to 50+ students.

EXPERIENCE

AI Engineer
Feb – Aug 2026
Vrketing GmbH

- Led AI projects automating business processes, from identifying needs to delivering solutions fitted to operational challenges.
- Designed data and technical architectures and took systems into production.

Data / AI Engineering Intern
May – Oct 2025
Pape Dawson Engineers

- Built 2 production RAG systems (Python, FastAPI, Qdrant, Docker) for semantic search over 1,000+ technical documents.
- Automated PDF/JSON processing pipelines with Sentence Transformers vectorization; integrated SharePoint/OneDrive APIs and deployed containerized REST APIs.
- Impact: reduced search time by 70%.

Founder
2025 – Present
Khabex, digital studio

- Websites, e-commerce, custom software, point-of-sale and AI automation for small and medium businesses.
- Built and run PrepaZone (online prep platform for Moroccan students) and MasterJobs (AI job-hunting platform).

Network Security Intern
Jun – Aug 2024
Moroccan Pension Fund (CMR)

- Developed a secure guest portal for 200+ monthly visitors with Aruba provisioning and a real-time traffic monitoring interface.

Junior Consultant
Jan 2024 – May 2025
Aquitaine Électronique Informatique

- Technical consulting and solution development for client companies; project management and client communication.

Private Tutor
2021 – Present
Mathematics, CS, Physics-Chemistry

- Tutored 50+ students (CPGE, university, high school); partnerships with Complétude and Myschool Maroc.

SELECTED PROJECTS

Semantic Search RAG
Two production RAG systems, 70% faster search over 1,000+ documents (Python, FastAPI, Qdrant).

RTDIP Forecasting (Linux Foundation × Shell)
Open-source time-series forecasting and anomaly detection (Spark, PySpark).

DSM Software
Distributed shared memory with dynamic page transfers and IPC, in C.

PrepaZone · MasterJobs
Full-stack products in production: EdTech platform and AI job-hunting platform.

EDUCATION

Sep 2023 – Feb 2026
Master's in Telecommunications Engineering
Enseirb-Matmeca, Bordeaux INP
CTI / EUR-ACE accredited. Security, AI, networks, software, IoT. Ranked 3rd in class.

Oct 2025 – Feb 2026
Exchange semester, AI & Security
Technische Universität Berlin
Deep Learning, Smart Security Lab, Python for ML, AMOS project.

Sep 2023 – Jun 2024
Bachelor in Engineering Sciences
Enseirb-Matmeca, Bordeaux INP
Graduated 5th in class. Computer science, networks, signal & image processing.

Sep 2021 – Jul 2023
CPGE (MPSI, MP*)
Lycée Moulay Youssef
Intensive mathematics, physics and computer science preparatory classes.

SKILLS

Programming
Python, C, SQL, Java, JavaScript, MATLAB, PHP

AI / ML & Data
Pandas, NumPy, Scikit-learn, TensorFlow, PyTorch, Hugging Face, Spark, Qdrant, RAG

Tools & frameworks
Git, FastAPI, Docker, React, Node.js, Next.js

Cloud & DevOps
AWS, Power Automate, GitHub Actions, Linux

Cybersecurity
Network security, Wireshark, Nmap, Aruba / Fortinet, Kali Linux

LANGUAGES

English	C1 · TOEIC 975/990
French	C1 · native-level
Arabic	C1 · native-level
German	B2
Spanish	A1

CERTIFICATIONS

- CompTIA Network+ (2024)
- Supervised Machine Learning, Stanford × DeepLearning.AI (2024)
- CS50's Introduction to Programming with Python, Harvard (2023)
- Fundamentals of Network Communication, Univ. of Colorado (2023)