



Karim HAMOD

Gen AI Engineer

Innovative engineer with 2 years of experience in the AI lifecycle, specializing in generative AI and LLM orchestration. Proven expertise in developing production ready RAG (Retrieval-Augmented Generation) systems and autonomous AI agents using LangChain and Python. Expert in building scalable backends with FastAPI and automating complex workflows via N8N. Committed to applying MLOps best practices and optimizing model performance within Agile environments.

Education

Master in Data Engineering for AI — [Data Science Tech Institute](#) Paris, France

10/2023

Focus : Machine Learning, Big Data, Cloud Computing, Data Warehousing, Deep Learning

Master's in Integration, Security & Trust in Embedded System — [Universite Grenoble Alpes INP, Esisar](#) Valence France

09/2022 - 08/2023

Bachelor in Computer Engineering — [Beirut Arab University](#) Beirut, Lebanon

09/2018 - 06/2022

Work experience

Engineer GenIA/Data Freelance — [Fakhfakh consulting](#) London, United Kingdom

10/2025 - 03/2026

- Design and modeling of the database schema using Supabase, optimizing data architecture for an AI-driven EdTech platform and ensuring high-performance management of complex relationships.
- Implementation of secure authentication with Auth0, including seamless integration within the web platform and user profile synchronization for robust access management.
- Automation of pedagogical content generation (quizzes, flashcards) via n8n workflows, transforming internal user documents into structured AI-powered learning resources.

Engineer GenIA/Data — [Efor Group](#) Paris, France

10/2023 - 09/2025

- Development of a high-performance AI architecture using LangChain, combining a RAG (Retrieval-Augmented Generation) system optimized by vector databases with autonomous agents to automate complex decision-making workflows.
- Automation of data ingestion and processing through the development of robust Python scripts, integrating external API streams and vector databases to power high-performance models.
- Collaborative full-stack refactoring of an open-source chatbot (FastAPI, React, TypeScript), including scalability optimization and the implementation of CI/CD pipelines via GitHub Actions.
- Leadership of a critical architectural migration from MongoDB to SQL, including technical feasibility studies and rigorous performance testing to ensure data integrity.

Embedded Systems and Fault Injection Engineer — [Adevices](#) Moirons France

02/2023 - 08/2023

Development of applications designed to introduce faults into embedded systems, supported by extensive bibliographic research on fault injection and localized hardware perturbations.

Full Stack Web Developer — [Ask For Assistant Ltd](#) UK

09/2021 - 12/2021

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Computer skills

AI & Data Science

- LLMs (Advanced RAG), LangChain, PyTorch, TensorFlow, Machine Learning.

Backend Development

- Python (FastAPI, Flask), C/C++, SQL (Relationnel & NoSQL).

Frontend Development

- React.js, JavaScript, HTML5, CSS, TypeScript.

Databases

- MongoDB, Azure Cosmos DB, SQL Server, Supabase

Cloud & DevOps

- Microsoft Azure, Docker, CI/CD (GitHub Actions, GitLab CI).

Automation & tools

- n8n, VS Code, Visual Studio, MATLAB.

Skills

Autonomy & Initiative

Communication Skills

Adaptability & Tech Monitoring

Collaboration Spirit

Rigorous

Languages

English
Fluent

French
Conversational

Arabic
Maternal/ Fluent