

# LAHCEN AIT ZETTA

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Backend developer specializing in AI and Machine Learning with proven experience in building secure, scalable, and Dockerized applications using FastAPI. Expert in integrating LLMs, developing RAG architectures, and creating end-to-end data pipelines. Passionate about delivering production-ready, full-stack AI solutions

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## Technical Skills :

**Programming Languages :** Python , C(Low level) , JavaScript

**AI & Machine Learning Frameworks :** TensorFlow, PyTorch, Scikit-learn, Keras, XGBoost, Pandas, NumPy, Hugging Face Transformers, OpenCV

**Backend & Web:** FastAPI, Next.js, REST APIs, JWT Authentication

**Methodologies:** Agile, Team Collaboration, Technical Communication

**Cloud / DevOps :** CI/CD (GitHub Actions), Vercel

**Tools:** Git, GitHub, Jira, Visual Studio Code

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## Experience & Projects:

**Secure AI Translation Platform (FR ↔ EN) – Personal Project (2025)**

Tech: FastAPI, Next.js, Docker, PostgreSQL, Hugging Face, Gemini, GitHub Actions

- Designed and developed a secure full-stack AI translation platform.
- Implemented JWT authentication and role-based API security.
- Built a fully Dockerized architecture with automated CI/CD pipelines.
- Deployed scalable frontend and backend services.

**Machine Learning API for Healthcare – Projet personnel — 2025**

Tech: Python, FastAPI, Machine Learning, Docker

- Developed a production-ready ML API with full preprocessing and training pipeline.
- Implemented secure FastAPI endpoints with Pydantic validation.
- Added Swagger/OpenAPI documentation and unit testing.

**AI Fil Rouge Project – End-to-End AI System – Simplon Training Project (2024)**

Tech: Python, Machine Learning, RAG, Apache Spark, FastAPI, Docker

- Designed an end-to-end AI system from data ingestion to deployment.
  - Built scalable data processing pipelines using PySpark.
  - Integrated RAG architecture for intelligent information retrieval.
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## Education & Training:

**Artificial Intelligence & Data Engineering — Simplon (6-month Intensive Program)**

**DEUG – Industrial Technology Engineering (GTI) Faculty of Sciences, Agadir (2022 – 2024)**

**Programmation en Langage C (1337) 2024-2025**