

PATRICK SAADE

AI Engineer | Applied AI, LLM & ML Systems

French- Lebanese | Beirut, Lebanon (Open to Relocate) | [+33 6 76 75 68 53](tel:+33676756853) | patrick-saade@outlook.com | [LinkedIn](#) | [Github](#)

PROFESSIONAL SUMMARY

AI Engineer who takes systems from research to production, owning the full path from data preprocessing and model training to backend APIs, databases, and containerized deployment. Master's in AI with depth spanning deep learning, NLP, and classical ML alongside modern LLM, agentic, and RAG architectures. Proven record of shipping AI that scales across government, healthcare, and enterprise.

CORE SKILLS

AI / ML: LLMs, Agentic AI, Retrieval-Augmented Generation (RAG), NLP, Machine Learning, Deep Learning, Model Fine-Tuning, Inference Optimization, Data Preprocessing, Time Series

Programming: Python, SQL, Java, REST APIs, React

Frameworks & Tools: PyTorch, TensorFlow, scikit-learn, OpenAI, Hugging Face, LlamaIndex, LangGraph, Claude Code, FastAPI, MLflow, Git, Make

Data & Infrastructure: PostgreSQL, Vector Databases, Docker, Kubernetes, AWS, GCP, MLOps, CI/CD, Terraform, Ansible, Kubeflow

Architecture & Leadership: System Design, AI Solution Architecture, Consulting, Technical Leadership, Project Scoping

LANGUAGES

French — Native | **English** — Fluent | **Arabic** — Fluent

EDUCATION

Master of Science in Artificial Intelligence Systems

EPITA - Ecole pour l'informatique et les Techniques Avancées
Paris, France | Jun 2023

Bachelor of Science in Management Information Systems

USJ - Université Saint Joseph de Beirut
Beirut, Lebanon | Jun 2020

PROFESSIONAL EXPERIENCE

AI Engineer | Zaka / MadeBy
Beirut, Lebanon - Remote

Dec 2025 – Present

- Built and shipped AI-powered applications for WorkedPlace across React, FastAPI, and OpenAI integration, owning end-to-end delivery. Now serving hundreds of external users in production.
- Developed a personalized Zoom bot integrated with ZAKA's knowledge base that auto-joins meetings, transcribes, diarizes, and summarizes via a containerized AWS pipeline. Eliminated manual note-taking and delivered recap emails within minutes.
- Designed technical content and Make-based automations for the Certified AI Consultant program (email classification, CV parsing, candidate ranking, WhatsApp chatbot). Equipped ~100 consultants with deployable client-ready blueprints.
- Led a hands-on AI training in French for CIH Bank on Microsoft Copilot 365 and Copilot Studio. Upskilled 15 employees across all seniority levels through live demos and workshops.
- Managed 4 interns and mentored 4 capstone teams across concurrent product initiatives, owning their technical direction and delivery quality.

Senior AI Consultant (Part-Time) | GlobeMed Solutions Health Insurance**Mar 2025 – Present***Beirut, Lebanon - Remote*

- Continued leading the AI/ML department I founded at GlobeMed, retained part-time as a consultant to keep driving its delivery and technical strategy.
- Lead applied AI initiatives across Bahrain and Saudi Arabia, defining scope, technical strategy, and delivery roadmaps for claims anonymization, document extraction, and translation. Expanded AI capabilities into two new regional markets.
- Own solution design across tooling, architecture, and implementation, translating healthcare requirements into scalable AI systems. Replaced manual processes with production-grade automation built to scale with client volume.
- Lead and mentor 2 junior engineers while staying hands-on in solution structuring and technical design. Accelerated their ramp-up to independent delivery without slowing project pace.

AI Engineer | Inheaden - Ministry of Human Resources and Emiratisation**Mar 2025 – Dec 2025***Dubai, UAE - Hybrid*

- Served as an AI lead on a major UAE federal transformation program, owning the architecture and implementation of core AI modules for the Ministry of Human Resources and Emiratisation (MoHRE), in production across the entire ministry.
- Rebuilt a non-functional forecasting process into a working self-service platform, engineering the coding agent to run on aggregated statistical data only, resolving a privacy concern by keeping sensitive records out of the pipeline.
- Architected a chat-with-database system over the national workforce database covering the entire UAE labor force, employment records, and complaints, giving analysts natural-language access via RAG, agentic workflows, and tool calling.

Machine Learning Engineer | GlobeMed Solutions Health Insurance**Sept 2024 – Mar 2025***Beirut, Lebanon - On-Site*

- Founded GlobeMed's AI/ML department from the ground up, pitching a multilingual medical translation model directly to the CEO, IT Director, and senior leadership to secure funding and the mandate to build the function.
- Designed and delivered a multilingual NLP system for translating Arabic medical documents, improving internal translation workflows through beam search, confidence scoring, semi-continuous learning, and BLEU/BERTScore evaluation.
- Improved workflow efficiency by 40%, scaled training data from 1K to 15K records, and improved model performance by 22%, strengthening output quality despite imperfect domain data.
- Built an entity resolution solution to map records between legacy and new systems, reducing debugging time by 50% and significantly accelerating cross-system data reconciliation.

AI Engineer | Augment Digital Facilities Services**Sept 2023 – Jun 2024***Luxembourg, Luxembourg - On-Site*

- Built a text-to-SQL chatbot and a RAG-based assistant over user manuals, improving access to structured and unstructured internal knowledge.
- Developed the supporting vector database, LangGraph-based orchestration, API testing workflows, and technical documentation to improve reliability, maintainability, and knowledge transfer.

Machine Learning Engineer Intern | Quantmetry - Capgemini Invent**Sept 2022 – May 2023***Paris, France - On-Site*

- Contributed to MLOps and AI infrastructure initiatives by automating the provisioning of AWS GPU EC2 environments with Terraform and Ansible, enabling secure and reproducible data science workflows.
- Supported scalable ML training and deployment by integrating Kubeflow with AWS and GCP and building an inference-serving setup with Seldon and Kubernetes for production-style A/B testing.
- Produced technical documentation and knowledge-sharing materials to support future AI platform and inference projects.