

Patrick Saade

Nationality: Lebanese / French | **Address:** Beirut, Lebanon | Open to relocation | Remote

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AI Engineer | Machine Learning Engineer | LLM & Agentic Systems | Applied AI Consultant

AI Engineer with a software engineering foundation and 4 years of experience building AI systems, including LLM applications, RAG pipelines, and agentic systems, for government, healthcare, and enterprise clients. Own delivery end to end, from backend APIs and databases to model training and production deployment.

EDUCATION

Master of Science in Artificial Intelligence Systems

June 2023

EPITA - Ecole pour l'informatique et les Techniques Avancées

Paris, France

Bachelor of Science in Management Information Systems

June 2020

USJ - Université Saint Joseph de Beirut

Beirut, Lebanon

PROFESSIONAL EXPERIENCE

Senior Artificial Intelligence Consultant (Part-time)

March 2025 – Present

GlobeMed Lebanon, Health Insurance Solutions

Beirut, Lebanon

- Continue advising the AI/ML department I co-founded at GlobeMed, retained part-time as a consultant guiding 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, expanding AI capabilities into two new regional markets.
- Own solution design across tooling, architecture, and implementation, translating complex healthcare requirements into scalable systems that replace manual processes with production automation.
- Lead and mentor 2 junior engineers while staying hands-on in solution structuring and technical design work, accelerating their ramp-up to independent delivery.

Artificial Intelligence Engineer

December 2025 – July 2026

Zaka.ai / MadeBy

Beirut, Lebanon

- Built and shipped LLM-powered applications for WorkedPlace across React, FastAPI, and OpenAI, owning end-to-end delivery, now serving hundreds of external users in production.
- Developed a personalized Zoom bot integrated with the knowledge base that auto-joins meetings, transcribes, diarizes, and summarizes discussions using LLMs via a containerized AWS pipeline, eliminating manual note-taking and delivering recap emails within minutes.
- Designed technical content and Make-based automations for the Certified AI Consultant program, equipping 100 consultants with deployable client-ready blueprints, templates, and workflows.
- Led a hands-on AI training in French for CIH Bank on Microsoft Copilot 365 and Copilot Studio, upskilling 15 employees across various seniority levels.
- Managed 4 interns and mentored 4 capstone teams across concurrent product initiatives, owning their technical direction and overall delivery quality and standards.

AI Engineer (Freelance)

March 2025 – December 2025

Inheaden – Ministry of Human Resources and Emiratization

Dubai, United Arab Emirates

- Served as AI lead on a major UAE federal transformation program, owning the architecture and implementation of core AI modules, in production, deployed within MoHRE.
- Rebuilt a non-functional forecasting process into a working self-service platform, engineering the LLM coding agent to run on aggregated statistical data only, keeping sensitive records out of the pipeline.
- Architected a chat-with-database system over national-scale workforce data, employment records, and complaints, giving analysts natural-language access via RAG, agentic workflows, and tool calling.

Machine Learning Engineer

September 2024 – March 2025

GlobeMed Lebanon, Health Insurance Solutions

Beirut, Lebanon

- Co-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.
- Fine-tuned a MarianMT model for Arabic medical translation, building the data preprocessing, training, and inference pipeline with beam search, confidence scoring, and BLEU/BERTScore evaluation.
- Improved overall workflow efficiency by 40%, scaled training data from 1K to 15K records, and improved model performance by 22% overall.
- Built an entity resolution solution to map records between legacy and new systems, reducing debugging time by 50% and accelerating data reconciliation.

Artificial Intelligence Engineer

September 2023 – June 2024

Augment Digital Facilities Services

Luxembourg, Luxembourg

- Developed the supporting vector database, LangGraph-based orchestration, and interface testing workflows, improving system reliability and maintainability.

Machine Learning Engineer Intern

September 2022 – May 2023

Quantmetry – Capgemini Invent

Paris, France

- Contributed to machine learning operations and infrastructure initiatives by automating provisioning of AWS GPU environments with Terraform and Ansible for reproducible workflows.
- Supported scalable machine learning training and deployment by integrating Kubeflow with AWS and GCP, building an inference-serving setup with Seldon and Kubernetes.

SKILLS

AI & Machine Learning: LLM Applications, RAG (Retrieval Augmented Generation), Agentic Systems, Model Fine-Tuning, NLP, Deep Learning, PyTorch, TensorFlow, Scikit-Learn, Hugging Face, LangGraph, LlamaIndex, OpenAI, MLflow, Claude Code.

Programming: Python, SQL, Java, TypeScript, REST APIs.

Web & App Development: FastAPI, React, Streamlit.

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

Tools & Platforms: Git, Make, Microsoft Copilot 365, Copilot Studio.

Soft Skills: Problem Solving, Team Communication, Attention to Detail, Adaptability, Fast Learner, Critical Thinking.

Languages: French (native), English (fluent), Arabic (native).