

HADI MAHDI

Agentic AI & Advanced RAG Applications | ML/MLOps & Data | Backend APIs & Systems
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SUMMARY

- **Computer Science M1 student** and **SE Factory AI Engineering Bootcamp graduate** building **production-minded AI and ML systems** across **LLMs, advanced RAG, agentic workflows, deep learning, NLP, backend APIs**, data workflows, and **MLOps**.
- Focused on **product-facing AI systems** and **rapid prototyping**, where agents **retrieve context, use tools, complete multi-step workflows**, and expose results through **usable web/API interfaces**.
- Comfortable with **Python/FastAPI, LangGraph/LangChain, OpenAI/Azure OpenAI, ML model evaluation, vector search, Dockerized stacks, secure configuration**, and clear documentation.

SKILLS

- **Agentic AI & Advanced RAG**: LLM applications, tool-using agents, **RAG pipelines**, embeddings, **vector search, retrieval evaluation**, prompt/evaluation workflows, **guardrails, LangGraph, LangChain, OpenAI/Azure OpenAI APIs**
- **ML, Deep Learning & NLP**: supervised ML workflows, feature engineering, **model training/evaluation, deep learning, NLP, BERT/transformer models, model fine-tuning, MLP/CNN training**, metrics analysis, **drift detection**, model validation, experiment tracking, **PyTorch/TensorFlow**, sklearn, Jupyter, data preprocessing
- **MLOps, Data & Production**: **PostgreSQL, pgvector, Qdrant, Redis, MinIO, MLflow, DVC, Docker, Docker Compose, GitHub Actions, Linux, health checks, secure configuration, rollback-aware delivery**
- **Backend & Product Surfaces**: **Python, FastAPI, REST APIs, rapid prototyping, async workflows, SQL, SQLAlchemy, Node.js/Express, Java, C, React, Vite, Streamlit, TypeScript, HTML/CSS**, technical documentation

PROFESSIONAL TRAINING

- **AI Engineering Bootcamp Graduate | SE Factory (SEF) | 2026**
 - Completed intensive training across **generative AI, AI agents, RAG, MLOps**, cloud-ready deployment, and AI-assisted production workflows.
 - Built **production-minded AI systems** with **retrieval, tool use, evaluation gates, Dockerized services**, and usable API/web interfaces.

PROJECTS

- **AkarAI | AI-first multi-tenant real estate platform | 2026 | [GitHub](#)**
 - **Owned architecture, RAG infrastructure, and tenant-isolation design** for an **AI-first multi-tenant real estate platform** for Lebanon, covering user/agency apps, platform admin, search, listings, leads, media, analytics, audit, and AI modules.
 - Designed **production-minded patterns** around **tenant isolation/RBAC, background workers, Redis queues/rate limiting**, MinIO object storage, **pgvector RAG, guardrails, PII-safe logs, and RAG quality evaluation**.
- **AI Agent Travel Planner | full-stack agentic AI application | May 2026 | [GitHub](#)**
 - **Owned the agent workflow, backend APIs, and retrieval/tool orchestration** for a **full-stack AI travel planner** that turns natural-language chat into personalized itineraries with streaming and email delivery.
 - Built with **FastAPI, LangGraph/LangChain, Azure OpenAI, PostgreSQL/pgvector, React/Vite, Docker Compose, secure configuration, and health-checked services**.
- **Maintainer's Copilot | RAG assistant for software repositories | May 2026 | [GitHub](#)**
 - **Owned the repository-ingestion, retrieval, and generation flow** for an **AI maintainer assistant** with **PostgreSQL/pgvector** storage, flexible model-provider integration, and documented architecture.
 - Added **engineering gates** across **tests, linting, type checks, Docker builds, smoke/security/docs checks, and LLM/RAG evaluation thresholds**.
- **Drift Triage Co-Pilot | self-healing MLOps stack | 2026 | [GitHub](#)**
 - **Owned the drift triage workflow** for an **MLOps stack** covering model serving, **drift detection, automated retraining**, human-in-the-loop approvals, audit trails, and **rollback-aware operations**.
 - Implemented **FastAPI/sklearn** services, **PSI/chi-squared drift checks, MLflow registry, LangGraph triage, Redis worker queue/DLQ, PostgreSQL audit tables, Streamlit dashboard, and Docker Compose health checks**.

EDUCATION

- **Master 1, Computer Science | Lebanese University | 2025-2026**
 - Coursework: Machine Learning, Cloud Computing, Multimedia Processing, Advanced Networks, Big Data, IoT, Deep Learning, Cryptography and Secure Communications.
- **Bachelor of Science, Computer Science | Lebanese International University (LIU) | 2022-2025**
 - Coursework: Java/OOP, Operating Systems in C, Machine Learning in Python, Robotics in C++, AWS cloud concepts.

CERTIFICATIONS

- **CCNA 1 & CCNA 2 | LIU | July 2024** - Networking fundamentals, routing, switching, and troubleshooting small to medium networks.
- **AWS AI Practitioner | Aug 2026(In Progress)**

LANGUAGES

- **Arabic** (Native) | **English** (Advanced) | **French** (Working Knowledge)