

Mohamad Dbouk

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AI Engineer | Agentic AI Systems & Multi-Agent Architectures

SUMMARY

AI engineer specializing in agentic systems and multi-agent architectures, focused on building intelligent agents that reason, plan, and interact with external tools and APIs. Experienced with LangChain, LangGraph, and RAG pipelines to automate complex workflows end to end. Skilled in deep learning, Docker-based deployment, and delivering real-world AI solutions across the full development lifecycle.

CORE COMPETENCIES

Agentic AI Systems, Large Language Models, Multi-Agent Architecture, API Integration, Prompt Engineering, RAG Pipelines, System Architecture, Python Development, Deterministic AI Workflows.

PROFESSIONAL EXPERIENCE

Project Development Specialist | Groupe Carré d'Or

October 2024 – Aug 2025

- Designed and maintained the official company website carredor.org, showcasing companies, brands, events, and enabling direct communication.
- Delivered responsive, user-friendly web solutions that improved client accessibility and brand visibility.
- Provided IT support and troubleshooting to ensure smooth technical operations.
- Collaborated with teams to implement innovative digital solutions aligned with business needs.
- Strengthened expertise in software engineering, project management, and full-stack web development.

Customer Service Representative | Majid Al Futtaim

Dec 2022 – April 2023

- Professional in creating a delightful and memorable experience for every client.
- Maintained a high standard of customer service, consistently exceeding expectations.
- Served as a role model for the team, providing daily motivation and energy.
- Demonstrated exceptional communication skills, ensuring clear and effective interactions with clients.

Project Consultant & AI Development | Lead By Tech

Sep 2025 – January 2026

- Provided strategic technical guidance on team collaboration, workflow optimization, and project structuring to improve delivery efficiency.
- Advised on database architecture upgrades and migration strategies, ensuring system scalability while minimizing downtime and data integrity risks.
- Contributed to strategic planning and product ideation, identifying opportunities to merge existing projects and design new AI-driven solutions.
- Designed and developed an AI-powered customer service chatbot for the company website, leveraging conversational AI to automate user support and inquiries.
- Collaborated with stakeholders to align AI solutions with business objectives and real-world operational needs.
- Led and mentored interns in Machine Learning, Deep Learning, and Generative AI, providing hands-on guidance, learning roadmaps, and technical best practices.
- Supported the adoption of modern AI workflows and agent-based systems within ongoing projects.

EDUCATION

Bachelor of Science in Computer Science | Lebanese International University (LIU)

August 2024

PROJECTS

Google Calendar Assistant

December 2025

- Built an AI-powered Google Calendar Assistant using LangChain that autonomously schedules, checks availability, cancels events, and generates daily calendar reports through secure API integration.
- Designed an agentic workflow with multi-step reasoning and tool calling to translate natural language requests into reliable calendar operations, ensuring accuracy and automation efficiency.
- **Technologies Used:** Python, Multi-Step Agent Reasoning, Datetime, Agent Design, Task Planning & Decision-Making Agents, Deterministic Execution, Safe AI Systems.

Agentic AI-Powered HR Assistant

December 2025

- Designed and implemented an HR Assistant AI using agentic workflows and tool-calling to automate employee data retrieval, leave balance checks, and interview question generation.
- Orchestrated multi-step reasoning with structured inputs and outputs, ensuring reliable task execution and seamless integration with external HR tools and APIs.
- **Technologies Used:** Python, LangChain, Python, Ollama, Claude API, GPT-4o, Groq, Natural Language Processing (NLP)

Multi-Agent AI Content Creator Assistant using CrewAI

December 2025

- Built a CrewAI-powered multi-agent content creation system that generates blog drafts, reports, and SEO-optimized materials through collaborative agent workflows.
- Designed role-based agents and structured pipelines to improve content quality, consistency, and scalability for automated content production.
- **Technologies Used:** CrewAI, Python, YAML, Agent-based Orchestration, OpenAI Models.

RAG Multi-Modality System

November 2025

- Built a Retrieval-Augmented Generation (RAG) that scans complex PDFs with images and graphs. Chat system that enables users to query and extract accurate, context-aware answers from large PDF documents using vector search and LLM reasoning.
- Designed an end-to-end pipeline for document ingestion, embedding, retrieval, and response generation, ensuring scalable and reliable information retrieval from unstructured data.
- Deployed on [HuggingFace](#).
- **Technologies Used:** LangChain, Pinecone, Gemini API, Ollama, Python, Groq, PyMuPDF4LLM, RAG Pipelines.

SKILLS

Technical Skills: Python, Java, JavaScript, C, HTML, CSS, SQL, ReactJS, Node.js, Flask, FastAPI, LangChain, CrewAI, Docker, Git, Pinecone, PostgreSQL, MySQL, Linux, Bash, CI/CD, Pytest, REST APIs.

Soft Skills: Communication, Team Collaboration, Problem-Solving, Adaptability, Time Management, Coordination, Detail-Oriented, Critical Thinking, Active Listening, Creative Thinking, Analytical Skills.

LANGUAGES

Arabic (Native), **English** (Full Professional Proficiency), **French** (conversational).