

Abed Al Majeed Kanso

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Beirut, Lebanon

EDUCATION

Bachelor of Science in Computer Science **Lebanese American University** – Beirut

Graduated with Distinction

EXPERIENCE

Self Employed – AI Software Engineer - Freelance

May 2026 - Present

- Built and deployed a research assistant **RAG** pipeline using **FastAPI**, **Qdrant**, **Render**, and **Docker**
- Utilized **LangChain** document loaders and applied chunking and retrieval techniques
- Developed **LLM** chains using **LangChain** v.1's **LCEL** with structured output, streaming, and batch processing
- Maintained a stateful **LangGraph**-based AI agent with **health** checks, **retry/fallback** logic, and **security** controls
- Secured the application against **prompt injection**, **PII** leakage, and output manipulation with reliable defense layers
- Implemented structured **prompting** and message workflows, with **embedding** models and persistent conversation memory to support reliable, context-aware LLM responses across providers including **OpenAI** and **Anthropic**
- Tested and evaluated the application using unit and integration tests, implemented **rate limiting**, and leveraged **LangSmith observability** and tracing to monitor, analyze, and improve application performance
- Applied cost-budgeting strategies like **token** reduction and **caching**

Rutatel - Technical Support Engineer - Contract

July 2026 - Present

- Developed hands-on experience with **NOC operations** and **telecommunication systems**
- Diagnosed and resolved application, network, and **routing issues**
- Maintained and organized **client communication** and **documentation**

Lyst Technologies - Software Engineer - Intern

Jan 2026 – April 2026

- Worked with **Synergies**, the **fintech** platform developed by Lyst Technologies, to analyze and resolve client-related issues
- Achieved understanding of **financial services** and **Spring** application architecture
- Participated in team meetings and code reviews to ensure code quality and alignment
- Contributed to design and functional improvements in clients' pages by adding or modifying requested features
- Tested clients' pages manually and validated API endpoints using **Postman**

LFAIT SARL - Software Engineer - Contract

Feb 2025 – May 2025

- Implemented core features using **Laravel**, **MySQL**, and **React**, and tested APIs with **Postman**
- Developed and contributed to authentication workflows, dynamic user pages, ticket handling, and job processing pipelines
- Handled database, backend, and frontend deployment on **cPanel**
- Coordinated and tracked task tickets via Hub staff, and maintained clear documentation of progress
- Organized team tasks and to improve efficiency and ensure deadlines were met

Creoshift - Back End Developer - Intern

Oct 2024 - Dec 2024

- Built a secured API system to manage passengers and flights, applying **RBAC** authentication and **rate limiting**,
- Gained experience in **Laravel**, **MVC**, **AWS S3**, API routing, and **Postman/PHPUnit**
- Contributed to a **Deep learning visual search project**, working with **TensorFlow**, **Keras**, and **Pandas**

Integrated Digital Systems (IDS) - Software Engineer - Intern

Aug 2023 – Oct 2023

- Gained more experience in **PHP** development
- Developed a web application for the IDS Academy program using Bootstrap, JavaScript, **JQuery**, **Ajax**, **PHP**, and **MySQL**

PROJECTS

JobStream Personal Project: Developed a scalable backend API system using **Spring Boot** and **PostgreSQL** for distributed job processing, leveraging event-driven architecture and enterprise backend design principles. The project is suitable for integration with AI automation platforms such as n8n, enabling external workflows process jobs. The system supports the following features:

- Built with Spring Boot, PostgreSQL, **JPA/Hibernate**, and **Spring Security** using a **feature-based architecture**
- Implemented asynchronous event-driven processing with **RabbitMQ**, applying **Strategy** and **Observer design patterns**, along with **Redis-based** rate limiting and caching
- Containerized the application using **Docker & Docker Compose**, integrated **Swagger/OpenAPI** for API documentation, and developed comprehensive **JUnit/Mockito** unit tests
- The project can be accessed in my GitHub account (more explained with setup)

Centralized Ticket System Personal Project: Developed a centralized ticket system designed to integrate various ticket systems used by one company or one individual for different purposes across large teams, while ensuring that all tickets are stored in a single place. The platform is built using **Spring Boot**, **MySQL**, **tailwind CSS**, **React**, and, **Next.js**, supporting the following features:

- Implemented **near-real-time** ticket handling using **WebSockets** and integrated Slack via **Webhooks**
- Hosted the backend on **AWS EC2** and connected to **AWS RDS**. Ticket attachments are stored in **AWS S3**, and **Cloudflare** is used for secured connections. Deployed the frontend on **Vercel**
- Achieved security and authentication using **Spring Security**, **cookie-based authentication** (with the generation of access and refresh tokens, check-auth and refresh-auth checks), **rate limiting**, and **RBAC**
- Both frontend and backend codebases can be accessed in my GitHub account (more explained with setup)

ATRS – AI Tickets Routing System Personal Project: Developed an AI-powered ticket routing and classification system using **n8n**, **Groq Llama**, **PostgreSQL**, **Docker**, **Webhooks**, **IMAP email ingestion**, and **MCP (Model Context Protocol)**. The system automatically receives support emails via IMAP, extracts and summarizes incoming messages, classifies tickets, determines routing queues, and stores structured data in PostgreSQL for processing and analytics. The project can be accessed in my GitHub account

CERTIFICATES

Full-Stack Java Developer Course with Spring Boot Projects: Developed several projects with Spring Boot (IntelliJ IDEA), React, and MySQL. Gained experience with Spring dependency management, IOC, Spring JPA, IOC, Hibernate, Maven, Spring Security, JWT authentication in Spring Boot, OOP, and RBAC

IBM Full Stack Developer Specialization Projects: Developed several projects using Django, Flask, React, and Node.js. Gained experience with Git/GitHub, CI/CD, Restful APIs, API integration, Microservices, GraphQL, Docker, and Kubernetes

SKILLS

Programming languages: Python, C, C#, Java, JavaScript, Typescript

Operating Systems: Windows, Linux, and bash scripting

Front End: HTML, CSS, Bootstrap, React, Next, Angular/AngularJS, jQuery, Ajax, Three.js

Back End: Laravel, Node.js, Express.js, Django, FastAPI, Spring Boot, ASP.Net

DevOps: Git/GitHub, Docker, Ngrok, Nginx, AWS, Vercel, Redis, RabbitMQ, Render, cPanel, Oracle Cloud

AI: LLMs (google, anthropic, gpt, llama), prompting, n8n, MCP, RAG, LangChain, LangGraph, LangSmith, Qdrant, Requests, Beautiful Soap, Pandas, NumPy, TensorFlow, Keras

Testing: Postman, Swagger/Open API, PHPUnit, unittest, pytest, Mockito/Junit

Database: SQL, NoSQL, MySQL, MongoDB, PostgreSQL, SQL Server, SQLite