

Ms. ALAA ALBAST

AI Engineer and Software Developer

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Beirut, Lebanon

SUMMARY

Full Stack & AI Engineer with experience in Java back-end and Flutter development and an advanced background in AI. Experienced with containerisation of Python AI models and configuring local RAG pipelines for enterprise platforms.

EDUCATION

Master's degree: AI and Data Engineering

Lebanese University, Faculty of Sciences, Beirut 2024 –2026

Bachelor's degree: COMPUTER SCIENCES

Lebanese University, Faculty of Sciences, Zahle 2021 – 2024 with an GPA 3.6

SKILLS

- **Artificial Intelligence & GenAI:** Retrieval-Augmented Generation (RAG), Agentic AI, Large Language Models (LLMs), Prompt Engineering, Transformers, LangChain, LlamaIndex, PyTorch, Ollama, Hugging Face, Vector Databases
- **Backend Engineering:** Java, Python, Spring Boot, Microservices Architecture, RESTful APIs, Secure Data Pipelines
- **Frontend & Mobile Development:** Dart, Flutter, React.js
- **Database Management:** Firebase, PostgreSQL, MySQL, Oracle Database
- **DevOps & Tools:** Docker, GitHub Actions, Git, Containerization, CI/CD Pipelines
- **Methodologies :** Agile Scrum and Kanban

EXPERIENCE

AI & Data Engineering Intern (Master's Thesis)

Vanrise, Remote April 2026 _ September 2026

- **Engineered a Local RAG System:** Designed and implemented a Retrieval-Augmented Generation (RAG) assistant to automate documentation querying for T.One, an enterprise telecom platform.
- **Optimized for Extreme Efficiency:** Successfully deployed the system to run locally with minimal CPU/GPU resource dependency while achieving 100% retrieval and response accuracy.
- **Built the End-to-End Pipeline:** Handled data ingestion from raw PDFs and Word documents, implementing advanced chunking, metadata tagging, and CPU-optimized vector embeddings.
- **Tech Stack:** Developed the architecture using Python, LangChain/LlamaIndex, lightweight vector databases, and small/instruction-tuned local LLMs to guarantee cost-efficient, hallucination-free responses.

Full Stack & AI Engineer:

EduWay , Beirut October 2025 _ June 2026

- **Backend & API Development:** Utilized **Spring Boot** to build robust microservices and secure data pipelines for real-time AI model interactions.
- **Mobile & Web Frontend:** Crafted responsive, high-performance UI components in **Flutter** to visualize AI-generated insights and predictions.
- **Agile Collaboration:** Contributed to model training, refinement, and debugging within an agile lifecycle, ensuring high reliability for complex feature sets.
- **End-to-End AI Integration:** Responsible for the company's AI roadmap, implementing **RAG frameworks** and **predictive modeling** to automate and improve core business processes.

Full Stack Intern:

Apliman , Beirut June 2025 _ September 2025

- Worked across Java Spring Boot and Flutter to develop and enhance full-stack applications. Implemented backend APIs and secured data flow using Spring Boot, while building responsive interfaces with Flutter. Contributed to debugging, model refinement, and cross-platform feature integration in an agile development environment.

LANGUAGES

Arabic Native

English Intermediate

French Intermediate

PROJECTS

RAG

AI System /Present

Technique: Python, LangChain, Ollama, HuggingFace, Llama

EduWay

Web and App /June 2026

Technique: Java Spring Boot, Flutter, MySQL, Python

BillingSystem

Web /May 2025

Technique: Java Spring Boot, React.JS. PostgreSQL

AttendEase(Senior Project)

Mobile Application / June 2024

Technique: Kotlin ,Firebase