



CHARBEL LEBBOUS

AI Engineer

International mobility

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Bourj Hammoud, Lebanon



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EDUCATION

Master 2 in Machine Learning

Lebanese University, Hadath

| 2023 - 2024

Advanced ML, deep learning, and applied AI

Master 1 in Computer Science

Lebanese University, Fanar

| 2022 - 2023

Core CS, algorithms, and databases

Bachelor in Computer Science

Lebanese University, Fanar

| 2019 - 2022

Foundations in programming and systems

TECHNICAL SKILLS

Programming	Python, C/C++, SQL
Data	MySQL, Oracle, MongoDB, Power BI, Power Automate
Planning	MS Office 365, Jira, Github
Machine Learning	Tensorflow, PyTorch, Keras, Scikit-Learn, OpenAI API, spaCy, NLTK

LANGUAGES

ENGLISH	C1
FRENCH	C1
ARABIC	Native
CHINESE	A1

CERTIFICATIONS

- Blender for 3D Reconstruction - Udemy
- Generative AI - Udemy

PROFESSIONAL EXPERIENCE

AI Developer | 3D Object Reconstruction – DRL & Computer Vision

Lebanese University, Lebanon | 6 months - 2024

- Built a 3D reconstruction pipeline from single-view images using Deep RL
- Used Double DQN (DDQN) for object generation and performance benchmarking
- Trained CNN-based vision models and evaluated results in a simulated environment
- Compared algorithm performance and logged results using structured data formats

Artificial Intelligence Expert | LLM Automation, SharePoint Integration

Digilab Solutions, Lebanon | 4 months - 2023

- Developed a GPT-powered chatbot with OpenAI API + FlutterFlow
- Integrated Microsoft SharePoint workflows via Power Automate
- Stored user interaction data in SQL for analysis and logging
- Delivered a functional prototype for enterprise knowledge automation

AI System Developer | Simulation & Algorithm Modeling

IEA Coder Maker, Lebanon | 6 months - 2021

- Created AI-driven simulation models using ROS2 and Gazebo
- Designed behavior logic for autonomous vehicle scenarios
- Logged simulation outputs using MongoDB for structured testing
- Documented architecture and system behavior for deployment support

PROJECTS

Native Language QA RAG++ System | Python, Cohere, LlamaIndex

Independent Project, Lebanon | 3 mois - 2025

- Developed a semantic RAG pipeline with OCR, summarization, entity extraction, and multi-turn chat memory
- Indexed diverse docs for native language Q&A using vector search with planned keyword fallback

Face Recognition Access Control System | Raspberry Pi & Python

Lebanese University, Lebanon | 4 mois - 2024

- Real-time face detection and recognition
- Automated access control with sensors and logging

Text Classification with Transformers | Hugging Face & Python

Lebanese University, Lebanon | 3 mois - 2023

- Fine-tuned BERT for feedback classification
- Evaluated with precision and F1 score