Hussein Wehbe

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SUMMARY

Passionate MCCE candidate specializing in deep learning, computer vision, and prompt engineering, with hands-on experience in small object detection and real-time video analytics using Python and PyTorch. Excellent problem-solving, research, and collaboration abilities. Seeking a role to continue my learning journey through the development of cutting-edge AI solutions.

SKILLS

Technical:

Database Management Systems, **Office Package**, **Web Development tools** (Bootstrap, jQuery, JavaScript, PHP), **Scripting Languages** (Bash, Octave, Python), **Data Mining Pipeline** (Data Cleaning, Preprocessing, ML training and Evaluation), **Cryptography** (Symmetric & Asymmetric Encryption/Decryption & Key Generation)

OS: **Linux** (Command Line Administration, User Permission Management, Basic Networking Setup)

Language:

Arabic (native) ; English (Advanced)

PROJECTS

Vehicle Roadside Littering Detection: A Small Object Detection Study — Oct 2025 – Present
Master's Thesis — *Python, Pytorch, CVAT*

- Built a high-resolution video dataset and pipeline for **vehicle roadside littering** detection
- Implemented YOLOv9 with **SAHI** and **DeepSORT** for small litter detection and tracking from moving vehicles
- Evaluation YOLOv9 variants, focusing on **accuracy–latency tradeoffs** and cloud vs edge deployment for roadside enforcement

Stocks and Sales Management System (Web Application)
Bachelor's Senior Project — *Bootstrap, JavaScript, jQuery and PHP*

- Designed and implemented a web system that manages the ordering, stocking, tracking and controlling of stock and sales activities
- Captures a **process's lifecycle** from creation to execution
- Product, Warehouse and Retail management **communication between processes**: product creation, purchase order, stock order, return invoices and POS system

EDUCATION

Lebanese International University — Beirut, LB
M.S.c in Computer & Communication Engineering, ***current GPA: 3.45/4.00*** — *Exp. May 2026*

Lebanese International University — Beirut, LB
B.S. in Communication Engineering — *May 2024*

CERTIFICATIONS

- [**CompletePBX 5** Basic Training], [Xorcom]
- [**Linux Essentials**], [Cisco]
- [**Network Support & Security**], [Cisco]
- [**Blue Team Junior Analyst**] [Security Blue Team]
- [**Project Management Fundamentals**], [IBM]