

HUSSEIN WEHBE

Computer & Communication Engineer · Full Stack Developer · AI Researcher

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WORK EXPERIENCE

BA Solutions

Dec 2025 – Apr 2026

Full Stack Developer — Internship

Baabda, LB

- **Accelerated development cycles** by leveraging AI-augmented workflows (GitHub Copilot/Cursor) to rapidly prototype .NET 9 backend logic and React components
- **Optimized database architecture** using LLMs to generate and validate complex PostgreSQL schemas and relationship entities, ensuring high data integrity
- **Implemented full CRUD functionalities** with an "AI-first" mindset, utilizing AI tools to automate unit testing, error handling, and boilerplate code generation
- Developed intuitive user interfaces and admin dashboards, focusing on high-velocity delivery from concept to production

Tech Stack: .NET 9, React, PostgreSQL, Visual Studio 2022, WebStorm, pgAdmin 4

AI-Assisted Tools: Cursor, GitHub Copilot, ChatGPT/Claude (Prompt Engineering for Code Generation)

KEY PROJECTS

Vehicle Roadside Littering Detection — Small Object Detection Study

Oct 2025 – Present

Tech Stack: Python, PyTorch, CVAT · Master's Thesis

- Created a high-resolution video dataset and pipeline for vehicle roadside littering detection
- Trained variants of YOLOv8, 9 and 26 for transfer learning, through tuning on TACO dataset and custom vehicle roadside littering detection dataset
- Evaluated different YOLO variants, focusing on accuracy–latency tradeoffs and cloud vs edge deployment for roadside enforcement
- **Key Contributions:** Dataset Creation, YOLOv26 model evaluation for small object detection and proposal pipeline for vehicle roadside littering through a 2-stage pipeline for litter detection and license plate recognition

Stocks and Sales Management System

Bachelor's Senior Project

Tech Stack: Bootstrap, JavaScript, jQuery, PHP

- Designed and implemented a full-featured web system managing ordering, stocking, tracking, and POS across product, warehouse, and retail modules.
- Captured the full process lifecycle — purchase orders, stock orders, return invoices — with inter-module communication and audit trail.

TECHNICAL SKILLS

Full Stack: .NET 9, React, PostgreSQL, REST APIs	AI / CV: YOLO, PyTorch, OpenCV
Web: Bootstrap, jQuery, PHP, HTML/CSS, JavaScript	Scripting: Python, Bash, Octave
Database: PostgreSQL, SQL Server, pgAdmin 4	Security: Cryptography, Sym. & Asym. Encryption, Blue Team
OS & Networking: Linux CLI, DHCP, LAN, User Permissions	Data Science: ML training, data cleaning & preprocessing
Languages: Arabic (native) · English (advanced)	Soft Skills: Research, UAT, documentation, teamwork

EDUCATION

Lebanese International University

M.Sc. Computer & Communication Engineering — current GPA: 3.45 / 4.00

Exp. May 2026

B.Sc. Communication Engineering

May 2024

CERTIFICATIONS

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