

# Ahmad Hammoud

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Third-year Computer & Communications Engineering student specializing in software engineering and AI. Skilled in full-stack development, REST APIs, and end-to-end machine learning pipelines.

## EDUCATION

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**B.Eng. Computer and Communications Engineering — Software Engineering & Networks** Exp. May 2028  
Antonine University, Baabda, Lebanon

## PROJECTS

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### Smartphone Recognition & Price Prediction System

May 2026

- Engineered a 3-stage AI pipeline — CNN detection (90% accuracy), YOLOv8 recognition (70% mAP) across 16 iPhone models, and ML price prediction — trained on ~8,000 images.
- Benchmarked EfficientNet against a Random Forest baseline; delivered a Streamlit demo from image upload to estimated resale price.

### Gym Management Website

November 2025

- Built a full-stack web app (Node.js, Express, MySQL) with JWT authentication and role-based access across 3 roles (admin, trainer, member) following MVC architecture.

### Recipe Management REST API

May 2025

- Architected a RESTful API with Java, Spring Boot, and MongoDB — full CRUD, input validation, and structured error handling across multiple endpoints.

### Event Management System

April 2025

- Modelled a normalised relational database schema; executed complex SQL queries, joins, and aggregate reports across multiple related tables.

### Football System , Banking System

2024 – 2025

- Structured an OOP system using UML with Singleton, Factory, and Observer patterns; developed a C++ banking engine utilising linked lists and optimised algorithms.

## TECHNICAL SKILLS

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Languages: C++, Java, Python, SQL

Frameworks & Tools: Node.js, Express, Spring Boot, TensorFlow/Keras, YOLOv8, Scikit-learn, Streamlit

Web: HTML, CSS, JavaScript, REST APIs | Databases: MySQL, MongoDB

Concepts: OOP, Data Structures, Design Patterns, Database Design, Computer Vision, ML, Deep Learning

## CERTIFICATIONS

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Supervised Machine Learning: Regression and Classification — DeepLearning.AI | Credential ID: G6C586Z6A9N5

## LANGUAGES

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English (fluent) Arabic (native) French (DELFI B1)