

Ahmad Hammoud

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Fourth-year Computer & Communications Engineering student seeking a software engineering internship. Project experience in C++ and OOP design, Java/Spring Boot REST APIs, relational databases, and end-to-end machine learning pipelines.

EDUCATION

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

PROJECTS

Banking Transaction System 2024

C++, OOP, Data Structures, Algorithms

- Built a C++ banking engine handling accounts, deposits, withdrawals, and transaction history, using linked lists to store and traverse records.
- Optimized search and traversal routines to keep performance stable as record volume grew.

Football Management System 2025

C++, UML, Design Patterns (Singleton, Factory, Observer)

- Modeled the system in UML and implemented it in C++ using Singleton, Factory, and Observer patterns to manage teams, players, and matches.
- Applied encapsulation, inheritance, and polymorphism to keep the design extensible.

Recipe Management REST API 2025

Java, Spring Boot, MongoDB, REST

- Architected a RESTful API with full CRUD across multiple endpoints, with input validation and structured error handling.

GitHub: <https://github.com/Ahmadhammoud5/recipe-management>

Event Management System 2025

SQL, Relational Database Design, Normalization

- Designed a normalized relational schema; wrote complex SQL queries with multi-table joins and aggregate functions for reporting.

Gym Management Website 2025

Node.js, Express, MySQL, JWT, MVC

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

Smartphone Recognition & Price Prediction System 2026

Python, YOLOv8, EfficientNet, Scikit-learn, Streamlit

- 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; deployed a Streamlit demo on Hugging Face Spaces from image upload to estimated resale price.

Live Demo: <https://ahmadhammoud5-smartphone-ai.hf.space> | GitHub:

<https://github.com/Ahmadhammoud5/smartphone-ai-recognition>

TECHNICAL SKILLS

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

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

LANGUAGES

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