

MOHAMED EL TAHECH

AI & SOFTWARE ENGINEERING

Beirut, Lebanon

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SUMMARY

Master's student in AI at Lebanese University with hands-on experience in backend development and API design. Built and structured scalable systems including RESTful services and data-driven applications. Strong foundation in databases, system design, and software engineering principles, with a growing interest in microservices and event-driven architectures.

PROFESSIONAL EXPERIENCE

Internship – Software Engineering

April – May 2026

TechTalks – Remote

- Built and maintained RESTful API routes using **Next.js** (server-side) for a services marketplace application
- Contributed to booking system logic, ensuring smooth data flow between client-side React components and Next.js API routes
- Assisted in building admin dashboard components and provider management functionalities, including approval and verification workflows
- Established reusable patterns for API handlers, error handling, and response structures
- Collaborated in an agile team of 6 developers using Git, GitHub, and Jira

PROJECTS

- Digital Library Web Application (M1) – PHP, MySQL, JS (AJAX), Bootstrap**
 - Developed a full-stack web application with authentication and secure admin panel
 - Implemented product, user, and order management, with cart and wishlist features
 - Added advanced filtering, rating system, and recommendation engine
- Mobile E-Commerce Application – Flutter & Spring Boot**
 - Developed RESTful APIs for authentication, products, orders, and core CRUD operations, including a secure admin panel
 - Managed data flow between client and backend with proper validation and structured API design
- Real-Time Automatic License Plate Recognition System (M2 – AI) – YOLOv8, DeepSORT, OCR, OpenCV, Python.**
 - Multi-stage architecture for real-time detection and recognition of license plates from video streams
 - Produced structured outputs including plate numbers, timestamps, and tracking IDs for each detected vehicle
- LLM-Based Automated C++ Code Grading Agent (M2, AI) – LLaMA 3.1 8B, Groq API, Prompt Engineering, Python**
 - Automated C++ code evaluation system leveraging Large Language Models for syntax analysis, testing, and structured feedback generation.
- CNN Classification Project (M2, AI) – PyTorch**

Developed and trained a CNN on CIFAR-10 with data augmentation, hyperparameter tuning, and accuracy analysis.

EDUCATION

- Master's in Computer Science – Lebanese University, Hadath **2024–2026 (expected 2026)**
 - Specialization: Artificial Intelligence (M2)
- Bachelor's in Computer Science – Lebanese University, Hadath **2021–2024**

SKILLS

Programming Languages

C, Java, JavaScript, Python

Backend Development

Spring Boot, Next.js

Frontend Development

Next.js, React, HTML, Css

Software Engineering Practices

REST APIs, API Design, Authentication, Role-Based Access Control (RBAC), CRUD Operations, Data Validation, Error Handling, Object-Oriented Programming (OOP), Design Patterns

Databases

MySQL, MongoDB

Tools & Systems

Git, GitHub, Linux

Artificial Intelligence & Machine Learning

PyTorch, TensorFlow, OpenCV, YOLOv8, CNN, LSTM

Soft Skills

Teamwork and collaboration, Communication skills, Time management Adaptability, Fast learner

LANGUAGES

Arabic: Fluent (native language).

French: Advanced proficiency (DELF B2).

English: Advanced proficiency.

CERTIFICATIONS

- Machine Learning, Data Science, and Generative Artificial Intelligence with Python** : Udemy course by Frank Kane covering machine learning, data science, TensorFlow, GPT, OpenAI, and neural networks. *Duration: 20.5 hours*
- Intermediate to Advanced Python with 10 OOP Projects** : Udemy course by Ardit Sulce covering everything needed to master Python: Object-Oriented Programming (OOP), Git, APIs, databases, deployment, adherence to PEP8 standards, and more. *Duration: 23.5 hours*