

# Mahdi Mortada

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## Education

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**Lebanese American University (LAU)**

May 2026

*B.E. in Computer Engineering*

Byblos, Lebanon

- Course Work: Communication Systems, Deep Learning, Machine Learning, High Performance Computer Architecture

**Al Mostafa Al Hara High School**

2021

*Lebanese Baccalaureate II: General Sciences — Ranked 16<sup>th</sup> nationwide*

## Technical Experience

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**PowerApps Developer Intern - Iteration360**

2024, Lebanon

- Developed a production-ready business application using **Microsoft PowerApps**.
- Designed automated workflows using **Power Automate** to streamline business processes.
- Built dynamic user interfaces and integrated external data sources into PowerApps.
- Implemented form validation, role-based access, and approval workflows for real operational usage.
- Tested, deployed, and iterated on the application based on user feedback.

**Provided one-on-one and group tutoring for high school and university** (2020–Present).

## Technical Projects

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**Smart Warehouse Robot with Web-Based Inventory System**

2024

- Designed and developed a smart warehouse robot integrated with a full-stack web-based inventory system.
- Built a FastAPI backend for robot communication, OCR processing, database operations, and RESTful APIs.
- Developed a React.js dashboard for scan approval, inventory tracking, product grouping, and live search.
- Implemented automated approval workflows, image storage, and real-time inventory analytics.

**Robotics Competitions and Training Programs**

- **SUMO Robot:** Annual Robotics Competition, 2017: designed and programmed a competitive sumo robot.
- **Soccer Robot:** AUST Robotics Camp, 2018: built and controlled a soccer-playing robot.
- **Line Tracking Robot:** AUL Robotics Camp, 2019: implemented a line-following robot.

## Volunteering and Community Service

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**Humanitarian Volunteer — Local Charitable Organizations**

2024, Lebanon

- Supported local charitable associations in helping homeless and displaced individuals affected by war.
- Assisted with food distribution, basic supplies, and shelter preparation.

## Achievements and Activities

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- Placed on the **Dean's Distinguished List**, School of Engineering, Lebanese American University.
- Graduated high school with **High Distinction**, maintaining a cumulative 90+ average (2019–2021).
- Active member of the **IEEE Student Branch** at LAU.
- Active member of the **Consulting Club**, participating in case-solving and problem-analysis sessions.

## Technical Skills

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**Programming Languages:** Java, Python, Arduino (C/C++ for microcontrollers), Assembly Language

**Backend Technologies:** FastAPI, Node.js, REST APIs

**Frontend Technologies:** React.js, React Native, HTML, CSS, JavaScript

**Databases:** MySQL, MongoDB

**Scientific Computing and Machine Learning:** MATLAB, NumPy, Pandas, Matplotlib, Keras

**Low-Code and Automation Platforms:** Microsoft PowerApps, Power Automate

**Hardware and Engineering Tools:** Quartus, PSpice, SPICE-based simulators, microcontrollers, sensors, embedded systems, electronic circuit design and analysis

**Other Skills:** Git, debugging, system integration, API design, software testing, technical documentation

**Languages:** Arabic **C2**, English **C1**