

Abed El-Rahman Mneimneh

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EDUCATION

Lebanese American University

Bachelor of Engineering in Computer Engineering

June 2025

Beirut, Lebanon

WORK EXPERIENCE

Apliman Technologies

Jan 2026 – June 2026

VAS & Journey Building Developer Intern

Beirut, Lebanon

- Designing and optimizing complex customer journeys and automated workflows using enterprise visual journey builder tools.
- Developing and debugging reusable assistant modules to implement dynamic logic and streamline system responses.
- Managing 100+ node architectures within a professional production environment, ensuring efficient traffic routing and log management.
- Building and integrating databases using MySQL to enhance workflow efficiency and structured data handling.
- Executing the deployment and configuration of localized communication services within containerized environments using Podman.

Ogero

May 2024 – August 2024

Telecommunications Engineering Intern

Beirut, Lebanon

- Designed fiber optical network solutions for telecommunications infrastructure, including FTTx networks.
- Gained hands-on experience in fiber optic splicing, connecting fiber optic cables for network installation and maintenance, ensuring signal integrity and network continuity.
- Exposed to advanced telecom testing equipment such as OTDR, iOLM, Sidekick, and Dynatel, gaining insights into how these tools are used to diagnose and maintain both copper and fiber networks.
- Assisted with copper cables and optical fiber testing to get performance metrics and locate any issues ensuring efficient signal transmission and minimal losses.

ACADEMIC PROJECTS

Peer-to-Peer Energy Trading Project | Python, Scikit-Learn, IoT, ESP32, MQTT

May 2025

- Collaborated with other another team member to build incremental machine learning models (Python, Scikit-Learn) predicting the prosumer energy consumption patterns.
- Designed and implemented an IoT system (ESP32, AWS IoT Core, Sensors) for trading energy and monitor energy flow (voltage, current, SoC), transmitting real-time data and commands via MQTT.
- Collaborated cross-functionally with blockchain, machine learning, front-end team to ensure seamless interoperability between hardware, cloud platforms (AWS), and web application.

License Plate Recognition | MATLAB, Digital Image Processing

May 2025

- Built a MATLAB software to detect and recognize license plates using image processing (edge detection, morphological operations) and template-matching OCR.
- Improved detection accuracy by filtering candidates via aspect ratios and noise reduction techniques.
- Designed a custom OCR module to segment and classify characters from localized plates.

“MyCelio” Platformer Game | Unity, Firebase, C#

May 2024

- Developed the cloud save system of a Unity-based game with Firebase integration for managing user progress.
- Implemented user authentication, data persistence, integration to save/retrieve data from Firebase.
- Assisted with debugging and with implementing the local save system.

SKILLS AND LANGUAGES

Programming: Java, JavaFX, C#, Assembly Language, Python, Verilog, VHDL.

Data and Machine Learning: Keras, Scikit-Learn, NumPy, Pandas, Matplotlib, MySQL

Tools: Basic Linux, Git and GitHub, Firebase, Journey Builder, Unity, MATLAB, Visual Studio Code, PSpice, Microsoft Office Suite.

Soft Skills: Teamwork, Analytical Mindset, Adaptive Person, Creative Thinking

Languages: Fluent in spoken and written English, French, and Arabic.