

Mariam Mahfouz

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Objective

Senior Computer and Communication Engineering student interested in Artificial Intelligence, software development, networking, and embedded systems. Worked on academic and personal projects using Python, OpenCV, YOLO, Java, and SQL, including an AI-based smart navigation cane project for visually impaired people. Eager to improve technical skills, gain hands-on experience, and contribute to real-world projects in a professional environment.

Project

Safe Path –AI Smart Navigation Cane for the Visually Impaired Mar 2026 – Present

- Developing an AI-based navigation system using Python, YOLO, OpenCV, Arduino Uno, and ultrasonic sensors to detect obstacles and provide voice guidance.
- Simulated and tested the embedded system using Wokwi and preparing for full hardware implementation.

Clinic Appointment Management System Jul 2025 – Aug 2025

- Developed a Java and database application for managing clinic appointments and scheduling.

Network Design and Configuration Project Aug 2025 – Sep 2025

- Designed and configured a complete network infrastructure using Cisco Packet Tracer.

Coffee Shop Website Dec 2025 – Jan 2026

- Designed and developed a responsive website for coffee shops using HTML and CSS.

AI Sign Language Translation Gloves (Concept Project) Oct 2025 – Nov 2025

- Proposed an AI-based smart gloves concept for translating sign language into text or speech.

Smart CV Analyzer Website (Ongoing) Apr 2026 – Present

- Developing a web-based system that analyzes uploaded CVs, identifies missing skills, and recommends projects and interview questions.

Education

Islamic University at Lebanon (IUL)

Bachelor of Computer and Communication Engineering
Expected Graduation: 2027

Warde Nieh-Lebanon

2022-Present

Skills & abilities

Networking: TCP/IP, Routing and Switching, Subnetting, Cisco Packet Tracer

Programming: Python, Java, C, SQL

Web Development: HTML, CSS, JavaScript

Databases: SQL Server

Operating Systems: Linux (Ubuntu), Windows

Tools: Visual Studio Code, NetBeans, PyCharm, MPLAB, Proteus, Wokwi

Soft Skills: Problem Solving, Teamwork, Communication, Fast Learner

Languages

Arabic (Native), French (Fluent), English (Very Good)