

Joe Cherfan

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Summary

I am a dedicated and enthusiastic Computer and Communication Engineering student with hands-on experience in programming, networking and cybersecurity concepts. I am eager to gain practical industry experience to further develop my skills. I am seeking opportunities in telecommunication engineering and Cybersecurity, where I can apply my technical expertise to build impactful and scalable solutions.

Education

- 3rd year Computer and Communication Engineering student (till June 2028) at Saint Joseph University – 3.8 GPA (années préparatoires), 3.9 GPA (cycle ingénieur).

Experience & Projects

Smart Water Tank Controller – Arduino Mega 2560

March 2026 to April 2026

- Designed and built an automated water tank monitoring system for the Digital Electronics course at ESIB-USJ. The system continuously measures water level using an ultrasonic sensor, controls a 230V AC pump via a relay with full galvanic isolation, and displays real-time level, flow rate, and system status on a 16×2 I2C LCD.
- Implemented hysteresis control to prevent pump chattering, interrupt-driven pulse counting for accurate flow measurement, and automatic fault detection for overcurrent and sensor errors.

Hybrid Movie Recommendation System

March 2025 to May 2025

- Led my team in developing a hybrid recommendation system using Python (TF-IDF + cosine similarity + genre/tag fusion).
- Implemented an interactive web interface using Streamlit.
- Evaluated performance using large datasets from MovieLens.

Tutoring

Sept 2023 to May 2025

- Tutored university students in advanced Mathematics, Physics, and Programming.

Skills & Certifications

- Programming: Python (OOP) – Libraries: Pandas, NumPy, Matplotlib, Scikit-learn; C++ (OOP); SQL.
- CCNA1 Intro to Networks certification from Cisco.
- Intro to Cybersecurity certification from Cisco.
- Ethical Hacking certification from Cisco.
- Linux.
- MATLAB.
- Arduino.
- IEEE Student Member.
- Fluent in English, French and Arabic (native) – developing proficiency in Spanish and German.