

Yousef Ismail

Computer Engineering M2 Candidate | AI/ML & Full-Stack Developer
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Professional Summary

Computer Engineering M2 candidate with practical experience in AI/ML, full-stack web development, backend systems, and IT/network support. Skilled in Python, Flask, PyTorch, Laravel, React, PHP, MySQL, JavaScript, and SQL. Experienced in building data-driven applications, time-series forecasting systems, dashboards, and predictive models, with strong problem-solving and troubleshooting skills.

Skills

Technical Skills: Python, PHP, Laravel, React, Flask, REST APIs, JavaScript, HTML, CSS, Bootstrap, MySQL, SQL, SQLAlchemy, JSON, Git, GitHub, Netlify, Chart.js

AI & Data Skills: Pandas, NumPy, Scikit-learn, PyTorch, Time-Series Forecasting, TCN, Federated Learning, Predictive Modeling

Networking & Systems: Linux, Windows, TCP/IP, VPN, Router Configuration, Network Troubleshooting, Firewall Basics

Tools & Hardware: MATLAB, Proteus, KiCad, Arduino, Raspberry Pi, PCB Design

Soft Skills: Problem Solving, Teamwork, Communication, Attention to Detail, Adaptability

Professional Experience

Technical Maintenance & Network Support Intern | Liban Lait S.A.L
Beqaa, Lebanon | Oct 2024 – Dec 2024

- Diagnosed machine failures and supported preventive maintenance.
- Assisted equipment inspections and repair follow-up.
- Configured routers and checked network connectivity.
- Documented technical issues with maintenance teams.

Education

Master of Science in Computer Engineering — M2 Candidate
Lebanese International University – LIU | Nov 2024 – Jun 2026

Bachelor of Science in Computer Engineering
Lebanese International University – LIU | Oct 2020 – Nov 2024

Projects

Smart Home Energy Forecasting & Federated Learning System | Master's Project

Tech: Python, Flask, PyTorch, Flower, MySQL, SQLAlchemy, JavaScript, Chart.js

- Built AI platform for smart-home energy forecasting.
- Enhanced TCN forecasting using energy data.
- Applied federated learning for private model improvement.

Service Management System | Senior Project

Tech: PHP, Bootstrap, HTML, CSS, JavaScript, JSON, SQL

- Developed system for managing service requests.
- Built responsive interfaces and admin tracking.

Credit Card Approval Prediction | AI/ML Project

Tech: Python, Flask, Pandas, NumPy, Scikit-learn

- Built model for credit approval prediction.
- Created Flask interface with data preprocessing.

School Management System | Web Application

Tech: Laravel, PHP, MySQL, Bootstrap

- Developed web app for school administration.
- Designed databases for academic record management.

React Projects | Udemy Course Projects

Tech: React, JavaScript, REST APIs, Netlify

- Built Todo App using React hooks.
- Enhanced Weather App with live API.

Certifications

Artificial Intelligence & Machine Learning | Barbish Institution | Sep 2024 – Dec 2024

Backend Development | Barbish Institution | Oct 2024 – Jan 2025

React Development | Udemy | Jan 2025 – Mar 2025

Languages

Arabic: Native

English: Professional Working Proficiency