

# Yousef Ismail

**Master's Graduate in Computer Engineering | AI/ML & Full-Stack Developer**

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## Professional Summary

Master's graduate in Computer Engineering 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**

**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