

# Reem Abou Khalil

Aspiring Software Developer with experience in Full-Stack Web Development, Machine Learning, and Network Security.

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## SUMMARY

Proactive Computer Science student with hands-on experience in developing full-stack applications, machine learning models, and embedded systems. Skilled in managing projects from conception to deployment, with a diverse portfolio that includes innovative AI-driven solutions. Driven by a passion for problem-solving and continuous learning, eager to contribute effectively in dynamic teams and deliver impactful results.

## EDUCATION

**Bachelor of Science in Computer Science,** *Lebanese International University (LIU)* 06/2025

## PROJECTS

**AI-Powered Healthcare Diagnostic System for Diabetes (Senior Project)** 03/2025 – 05/2025

Developed a web-based system using machine learning to assist in diagnosing diabetes accurately and efficiently. The platform collects detailed patient data and provides diagnostic feedback using predictive AI algorithms, featuring a responsive frontend and a robust Python-based AI model.

- Technologies Used: Python, Flask, JavaScript, HTML, CSS, Machine Learning.

**Innocence & Style: Kids Fashion System** 10/2024 – 01/2025

Developed an e-commerce website for kids' fashion, "Innocence & Style," with a complete backend system. The website allows secure browsing, shopping cart management, and checkout, while admins can easily manage products through a dynamic catalog.

- Technologies Used: PHP, JavaScript, MySQL, HTML, CSS.

**Machine Learning Weather Classification Predictor** 10/2024 – 01/2025

Developed and trained a machine learning model to classify weather conditions using features such as temperature, humidity, and wind speed. Utilized Random Forest and Naive Bayes algorithms, along with a dataset from Kaggle, to process, clean, and analyze data for accurate weather predictions.

- Technologies Used: Python, Scikit-learn, Pandas, Jupyter Notebook.

**Cook Learns: Recipes & Techniques Website** 04/2024 – 06/2024

Developed a static, responsive website to provide easy-to-follow cooking lessons for Lebanese and Italian cuisine. The site features detailed recipes for traditional dishes, including ingredients, preparation methods, and instructional YouTube videos. Designed with a user-friendly interface and clean layout, the site also includes a small shop offering kitchen essentials, guiding users to enhance their culinary skills with the right tools.

- Technologies Used: HTML, CSS, JavaScript, Bootstrap.

## Smart Parking system

04/2024 – 06/2024

Developed an Arduino-based system with IR sensor for vehicle exit control, photoresistor for automatic lighting, and temperature sensor for fire alarm activation. The system also controls a servo door and displays emergency notifications for enhanced safety and management.

- Technologies Used: Arduino, IR Sensor, Photoresistor, Temperature Sensor, Servo Motor, C++.

## TRAINING AND CERTIFICATES

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**Network Security**, *Cisco Networking Academy* 06/2025

**CCNAv7: Switching, Routing, and Wireless Essentials**, *Cisco Networking Academy* 08/2024

**CCNAv7: Introduction to Networks**, *Cisco Networking Academy* 03/2024

## PRE-PROFESSIONAL EXPERIENCE

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**Private Tutor**, *Self-Employed* 09/2022 – 03/2025

- Developed customized lesson plans in Physics, Chemistry, and Biology for Grade 9-12 students, enhancing academic performance and fostering a deeper understanding of core subjects.
- Taught Computer Science to first-year students, covering Java, HTML, CSS, and JavaScript, and provided guidance to second- and third-year students in Software Engineering, Robotics, and Database courses.
- Utilized real-life examples, visual aids, and interactive techniques to simplify complex concepts and cater to different learning styles.

## SKILLS

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### Technical Skills

Java, C++, Python, Flask, HTML5, CSS3, JavaScript, React, Node.js, Bootstrap, MySQL, PHP, Git, GitHub, RESTful APIs, Machine Learning, Data Structures, Algorithms, Arduino, Network Security, Visual Studio Code.

### Soft Skills

Problem-Solving, Communication, Collaboration, Time Management, Adaptability, Critical Thinking, Attention to Detail, Analytical Skills, Creative Thinking, Teamwork.

## LANGUAGES

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**Arabic**  
(Native)

**English**