

NOUR YAMANI

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EDUCATION

Lebanese American University (LAU)

2022 – 2025

- BSc in Computer Science with Honors

PROFESSIONAL EXPERIENCE

Full-Stack Software Developer | Integrated Digital Systems | Beirut, Lebanon

Aug 2024 – Oct 2024

- Built a full-stack Event Management Web Application using PHP (OOP), MySQL, AJAX, and jQuery, with secure rolebased access control for Admins, Guides, and Members.
- Designed and implemented a MySQL database using phpMyAdmin, ensuring data integrity, secure user authentication, and asynchronous CRUD operations.
- Developed responsive, dynamic UIs using Bootstrap, jQuery, and Chart.js, enhancing user experience.

Capstone Researcher: Solving Tumor-Immune System Model Using Radial Basis

Jan 2025 – May 2025

Neural Networks | Lebanese American University | Beirut, Lebanon

- Designed a nonlinear system of ODEs modeling the interaction between tumor, immune, and abnormal cells.
- Applied Radial Basis Function Neural Networks trained with Levenberg-Marquardt backpropagation to approximate model solutions.
- Generated training data with 4th-order Runge-Kutta method, achieved high accuracy with low mean square error.

Coding Instructor | Geek Express | Lebanon – UAE (Remotely)

Oct 2021 – PRESENT

- Lead private and group sessions on app development and game development across various coding platforms.
- Worked with students of all abilities and aptitudes, catering to those with extra needs as required.
- Collaborated with seniors, tutors, and parents to help students achieve the best performance possible.

PROJECTS

Lebanese American University

2023 – 2025

Doodle-Based Password Security Against AI Attacks

- Developed an advanced authentication framework to defend against AI-powered password guessers (PassGPT) by integrating doodles to extract user-specific metrics into the password generation process.

Tamilian Cryptography Research

- Conducted research on a hybrid symmetric key encryption algorithm using the Tamil language's 247-character set with a three-phase system (translation, mapping, AES encryption) to enhance data security.

Job Recruitment Platform

- Designed a full-stack job recruitment portal using PHP, MySQL, HTML/CSS, JavaScript, and Bootstrap with role-based dashboards for different users.

Unity 2D Platformer Game

- Created a 2D platformer using Unity and C#, featuring dynamic obstacle avoidance, health system, and basic enemy mechanics.

Travel Blog Application

- Created a cross-platform social blog app using Flutter and Dart, with Firebase for real-time database, authentication, and cloud storage.

EXTRACURRICULAR ACTIVITIES

Staff Member | Event Organization Club (LAU) | Beirut, Lebanon

Jan 2023 – May 2023

- Assisted in planning and executing campus events, ensuring smooth logistics, coordination, and student engagement.

Tutor | Chrysalis Specialized Inclusive Learning Center | Beirut, Lebanon

Aug 2021 – Feb 2022

- Provided English language support to students with special needs, adapting lessons to accommodate individual learning styles and challenges.

Advisor | LAU Model Good Governance | Beirut, Lebanon

Dec 2020 – Mar 2021

- Mentored high school students simulating international institutions, guiding them through leadership roles and promoting principles of good governance.

CERTIFICATIONS

Certificate of Recognition, Microsoft: Certified Microsoft Innovative Educator (MIE)

Nov 2021

Certificate of Participation 3rd Place, American University of Beirut: 25th Annual Science, Mathematics, and Technology Fair

Apr 2019