NOUR EL RIFAII

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EDUCATION

Lebanese American University (LAU) – Byblos, Lebanon   **Aug 2022 - Aug 2026**
BE in Computer Engineering
Minor in Business
Dean's Distinguished List - Fall 2024

SKILLS

Programming Languages	**Front-End**	**Back-End**
Java, Python, JavaScript , SQL, Assembly	HTML, React, CSS	Node.js, Django

PROJECTS

Travel Agency Website   **Nov 2024 - Dec 2024**
- Developed a web-based vacation booking system using Django, HTML, and CSS, enabling travel agents to manage vacation packages, flight details, and invoicing processes efficiently.
- Implemented a database system to handle real-time vacation and flight data, ensuring data integrity and preventing overbooking through concurrency control mechanisms.

Ruins Lifting Rescue Robot   **Nov 2024 - Dec 2024**
- Executed real-time thermal imaging and object detection using the MLX90640 thermal camera, leveraging libraries such as Adafruit CircuitPython MLX90640, NumPy, and Matplotlib for data acquisition, processing, and visualization.
- Established Python-based algorithms for dynamic motor control, enabling precise rover navigation and heat source localization through temperature-driven adjustments.
- Designed and integrated a 6-DOF robotic arm, controlled via Raspberry Pi GPIOs and servo control logic, with smooth motion algorithms for accurate interactions in disaster scenarios.

Automatic Car Transmission   **May 2024**
- Customized and simulated a car transmission system using logic gates and state-space representation, highlighting expertise in digital logic design.
- Modeled transmission states and transitions with advanced state machines for accurate simulation.
- Utilized logic design tools to develop and test a reliable prototype, showcasing problem-solving and system design skills.

Global Cuisine Learning Platform   **May 2024**
- Created an interactive cooking website where users can learn signature dishes by selecting countries on a dynamic map.
- Modeled a responsive and user-friendly interface using Sigma, HTML, CSS, and React.js.
- Applied SQL for user account management, enabling account creation and login functionality.

LEADERSHIP AND COMMUNITY ENGAGEMENT ACTIVITIES

LAU Simulation Model Programs (MAL, MEU, MGG, & MUN)   **Jan 2025 - Present**
Logistics & Operations Coordinator
- Organized and prepared classes and class-material for on- campus training sessions and final conferences that involved 3000+ middle and high school delegates.
- Ensured a smooth and timely flow of training sessions and final conferences by being present on the floors and managing operations.

MMKN NGO
Supervisor   **Feb 2025 - Present**
- Managed coordinators, reviewed their reports, and served as the direct contact between the team and the NGO.

Coordinator   **Feb 2024 - Dec 2024**
- Coordinated volunteer tutors in giving reinforcement sessions for grades 8 and 9 students from public schools, online and in-person.

LANGUAGES

Arabic   English   French

EXTRACURRICULAR ACTIVITIES

Developer Student Club - LAU, Byblos

Memeber
- Participated in hands-on workshops and informational talks to bridge the gap between coding theory and practice and explore new developer technologies.