Nawar El Zein

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PROFESSIONAL SUMMARY

Third-year Computer Engineering student with a strong foundation in full-stack development, database design, and software engineering. Skilled in building scalable applications, secure authentication systems, and database-driven solutions. I am currently seeking an internship to contribute to innovative software or systems projects.

EDUCATION

Bachelor of Science in Computer and Communication Engineering September 2022 – Present
Antonine University, Lebanon | **GPA: 89.865**

TECHNICAL EXPERIENCE   GitHub

Full-Stack - Real Estate Agency Platform

Technologies Used: React.js, Node.js, MySQL, Leaflet, Bcrypt.js, NodeMailer, Multer

- Built an interactive property browsing platform with advanced filtering, favorites, and maps.
- Implemented secure authentication & role-based access control for clients and admins.
- Developed an automated booking system with email notifications, streamlining client-agent interactions.
- Optimized database architecture and queries, significantly improving platform performance and scalability.

Machine Learning - Human Pose Detection

Technologies Used: YOLOv8, COCO dataset, OpenCV, Gradio, Python

- Designed geometric algorithms that analyze joint angles and spatial relationships with angle-based heuristic scoring to classify poses into defined categories.
- Fine-tuned YOLOv8 model on COCO key points dataset, achieving 92.6% precision in pose detection.
- Created an intuitive web interface for real-time visualization, annotation, and emoji labels.

JavaFX - Clinic Management System

- Designed a GUI-based system for managing patient records and appointments.
- Applied OOP principles and integrated a MySQL database for data management.

TECHNICAL SKILLS

- Programming Languages: JavaScript (React.js, Node.js), Java, C++, SQL, Linux, Python
- Web Technologies: HTML5, CSS3, Express.js, RESTful APIs
- Tools: Git, Docker, Postman, Kubernetes (beginner), Adobe Creative Suite
- Concepts: OOP, MVC Architecture, Database Design, Design Patterns

LANGUAGES

Arabic (Native) | English (Fluent)