

Hamza El Hallak
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Profile

Computer Science student at the Lebanese American University with strong interest in software engineering and machine learning. Experienced in building technical projects and applying programming and system design concepts.

Education

Lebanese American University (LAU)
Bachelor of Science in Computer Science
Dean's Honor List Fall 2024 & 2025

Aug 2024 – Jun 2027

Technical Skills

- Programming: Python, Java
- Data Structures and Algorithms
- Database Management Systems
- Software Engineering
- Machine Learning
- Web Development
- Operating Systems
- Multilingual (English - Arabic - Portuguese)

Projects

NeoTerra – Database Management System (Oracle)

- Designed and implemented a database system including requirements analysis and data modeling.
- Focused on data organization, querying, and system reliability.

Machine Learning – Research Project

- An Explainable Hybrid NLP Framework for Fake News Detection Using BERT and Interpretable Machine Learning.

TV-Series and Movie Tracker – Full Stack Web Application

- Built a web application using JavaScript, Node.js, and React.
- Implemented databases, security features, and deployed the application to the cloud.

Civil Defense Software – Software Engineering Project

- Developed a medium-scale system using agile development methods, UML design, and testing techniques.

Experience & Activities

Lebanese Red Cross — Paramedic Assistant

Jan 2025 – Sep 2025

Youth for Climate Action — Sustain the World

Jun 2023 – Nov 2025

Eco-Innovate Expo — Lebanese American University

Jan 2024 – Present

Lebanese Scouts Association — Assistant Leader

2015 – Sep 2025

Certifications

Salesforce Administration Course (Udemy)

Aug 2025

Youth for Climate Action Certification

Nov 2023