

Sleiman El Hajj

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EDUCATION

Lebanese American University (LAU)

B.E. in Computer Engineering

- Course Work: Communication Systems, Deep Learning, LLMs, Intelligent Engineering Algorithms

May 2026

Byblos, Lebanon

Lebanon Evangelical School for Boys and Girls

Lebanese Baccalaureate II: General Sciences — Distinction

- Member, Engineering Club (2020–2022)

Sep 2019 – Jun 2022

Baabda, Lebanon

EXPERIENCE

Full Stack Developer (Part-time)

Inframappa

- Develop features for *Inframappa*, a US infrastructure mapping platform for universities, hospitals, and municipalities, delivering up-to-date orthorectified imagery, digitized engineering drawings, and field-verified assets.
- Contribute to a centralized web/mobile/AR-VR system that supports IoT sensor integration, real-time & playback data visualization, and advanced 2D/3D mapping of above- and underground assets.

Apr 2025 – Present

Byblos, Lebanon

Undergraduate Researcher

Lebanese American University (LAU)

- Research on Drug–Target Interactions using Neural Networks and Hybrid Quantum–Classical Models.
- Investigate how computational and AI-driven methods can accelerate drug discovery by predicting molecular binding between drugs and protein targets. Review and implement deep learning architectures such as CNNs, RNNs, Transformers, and Graph Neural Networks; evaluate performance on datasets like BindingDB, KIBA, and DAVIS.

Sep 2025 – Present

Byblos, Lebanon

PROJECTS

Intelligent Engineering Algorithms

Jan 2025 – May 2025

- Developed a search agent capable of forming shapes with and without obstacles using classical search (**A***, **BFS**), heuristics, and deep learning models.
- Applied advanced AI techniques including **K-means**, **Q-learning**, **Cellular Automata**, **Genetic Algorithms**, and probability-based searching for adaptive decision-making.
- Built the frontend with **React.js** and implemented data processing/visualization with **Flask**.

Propertease

Oct 2024 – Dec 2024

- Developed a web app using ReactJS that allows users to add and view properties.
- Used **MySQL** for dynamic data storage; **Node.js/Express.js** backend to fetch/send data to the frontend.

EXTRACURRICULAR ACTIVITIES

Vice President, IEEE Electronics & Aeronautics Club — LAU

Sep 2025 – Present

Organize events, site visits, and club activities; coordinate member engagement and student–industry collaboration.

SKILLS

Programming: Java, Python, JavaScript/TypeScript, C#, Assembly Language

Frameworks/Tools: React Native, React.js, Node.js, Express.js, Angular, .NET, Android Studio

Data: MySQL, MongoDB

Scientific/ML: MATLAB, NumPy, Pandas, Matplotlib, Keras

GIS/Mapping: OpenLayers

Soft Skills: Communication, Leadership, Problem Solving, Innovation, Persistence, Hard Working

Languages: Arabic (**C2**), English (**C2**)