

Hala Ezzeddine

Software Developer

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Experience

- **React Developer** Intern at BrainKets (February 2025): ReactJS, Redux, Tailwind CSS.
- Graduate teaching assistant at LAU (2023 – 2025). I have taught Labs in Java, Python, and C languages.
- Python instructor at Moubarmijah (November-December 2023).
- **Web Developer** Intern at Aiiia Solutions (June - August 2022). I have worked on the company's e-commerce project utilizing Python, Django, PostgreSQL, MongoDB, and GitHub.

Technical Skills

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|---------------------------------|----------------|
| • Java, Python, and C languages | • ReactJS |
| • PHP | • Redux |
| • SQL | • HTML and CSS |
| • Linux and Bash | • Matlab |
| • Git | • Latex |
| | • Power BI |

Projects

- **File Management System.** I have in a team at BrainKets to build a scalable file management platform. Several UI components were created to enhance user experience and system performance using ReactJS and Typescript.
- **Ecommerce web application.** It contained an admin portal and a user portal that utilized all CRUD operations. This was done using php, HTML, CSS, and JavaScript. "phpMyAdmin" was the database used.
- I have built a UAV-assisted **Federated Learning** framework for Forest Fires Detection.
- I have trained a neural network model for Sign Language Classification (image classification), and have worked with RNNs, CNNs.
- Theft detection **IoT device.** A Raspberry Pi microprocessor was used to detect changes in the environment and communicate with a website.
- Created a **mobile application** to calculate Body Mass Index (BMI) using java in android studio.
- Developed a Virtual Learning Assistant in a team of three, applying the full software development lifecycle from requirements elicitation through unit testing.

Education

- **MS** in Computer Science (2023-2025) | LAU
- **BS** in Computer Science (2020-2023) | LAU

Certificates

- **Semicolon Academy:** Completion of "Ethical Hacking Foundation" course, ETH-101. (30 hrs of bug hunting and penetration testing)

Publications

Energy-Efficient Solar-Powered UAV-Assisted Reliable Data Collection Considering IoT Elevation:
<https://ieeexplore.ieee.org/document/10881526>

Extracurricular Activities

- LAU Semicolon Ambassador (2024-2025)
- All Girls Code: Completion of Techsplore2022 (Advanced Track).
- MMKN Organization: volunteering in the education support program as a math tutor Spring2021.

Languages

- English (Fluent)
- Arabic (Native)
- French (Intermediate, Conversational)