

Razan Houdaifa

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EDUCATION

Lebanese American University: (2020 -December 2024)
Bachelors in Computer Engineering - Graduated with Distinction

Al-Bayader School: (2005-2020)
Life Science Baccalaureate - Ranked First with High Distinction throughout all school years.

WORK EXPERIENCE

BSS/VAS Operation Engineer at Africell Holding – Afrimoney (Jan 2025- Present)

- Collaborate closely with **Comviva**, the supplier of the mobile financial system, to ensure seamless operation across all applications and portals.
- Conduct comprehensive **USSD** testing to validate functionality and swiftly troubleshoot and resolve issues related to **bundle configurations**.
- Perform testing of the **AfriMoney** mobile application, ensuring reliability and optimal user experience.
- Manage configurations using **SQL Server Management Studio (SSMS)** to maintain data integrity and system performance.
- Oversee **API** functionality and utilize **API Publisher** and **API Store** platforms to configure, manage, and secure APIs, supporting smooth financial transactions and system interoperability.
- Communicate with partners to perform live testing and troubleshooting, ensuring seamless platform integration and functionality.

Information Technology Training at Dar Al Handasah: (June 2023-July 2023)

- MERN Stack Development:** Created a website that allows users to register, post, comment and interact with other users using JavaScript, NodeJS, ReactJS, HTML, CSS, ExpressJS, and MySQL.
- Computer Networking:** Configured multiple network layouts using Mikrotik (VLANs, LANS, routers, switches.)
- Virtualization:** Deployed a server that manages different virtual machines (domain controller, file sharing...) using Windows Server and VMware.
- Introduction to Machine Learning and AI:** implemented an RNN model for the task of next word prediction in a sentence and a CNN model to distinguish between images of cats and dogs using Python.
- Research:** Conducted research on every hardware component of a computer, unraveling their evolutionary journey throughout the years.

ACHIEVEMENTS

- Placed on Lebanese American University's High Distinction List during Spring 2023 and Fall 2023, Distinction list during Fall 2020, Fall 2024, and Spring 2021, and on LAU's Honor list during Fall 2021.
- Rewarded with a full scholarship from Middle East Partnership Initiative (MEPI).(2022-2023)
- Member of Google Developer Student Club and IEEE at LAU. (2022-2023)
- Won 2nd place in AUB Technology Fair and 3rd and 4th place in LAU Arts and Science Fair. Accepted to be part of AUB Summer Boot Camp. (2018 -2019)

PROJECTS

- FYP - Forest Fire Detection Network using Wireless Video and Sensor Identification:** Developed the frontend for a wildfire detection system as part of my final year project, using ReactJS to create an intuitive and responsive interface. The system integrated sensor networks and live monitoring features, enabling real-time wildfire detection and data visualization for firefighters and civilians. Implemented interactive maps, real-time alerts, and data-driven dashboards to enhance situational awareness and decision-making.
- Bus Management Website:** I was part of the executive team. We worked on creating a university bus management website where I managed the front- end part of the website using ReactJS, HTML, and CSS. The created website allows students to book a seat along with the respective timing and stops. Utilized MySQL Workbench to design and construct the database for the application.
- State of Health Predictor of Lithium ion Batteries:** In spearheading a project to predict lithium-ion battery health, we employed machine learning methods like linear regression, support vector machines, and random forest. By analyzing various factors affecting battery performance, we refined models to offer accurate assessments over time..
- Music Lounge VR:** Music Lounge, an A-Frame endeavor, combines music and virtual reality in an interactive theater. Users can join virtual events and festivals anytime, experiencing diverse performances—from music to comedy and speeches—on a versatile stage that allows creators total artistic freedom.

SKILLS

- Programming Languages: Java, Python, SQL, ReactJS, HTML, CSS, A-Frame, Linux Commands, Assembly, VHDL, Verilog.
- Technical Courses: Database Systems, Information Security, Data Science & Machine Learning, Computer Networks, Data Structures, Virtual Reality, LLM.
- Languages: Arabic (native), English (fluent), French (fair).