

Bahaa Ammoury

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Education

American University of Beirut (AUB), Beirut, Lebanon

Sep 2022 - Present

Bachelor of Engineering in Computer and Communications Engineering (GPA: 3.8/4)

Minor in Mathematics

Education and Teaching Secondary School Aley, Lebanon (Global Average 18/20)

Experience

American University of Beirut, Vertically Integrated Project: AI in Neuroradiology

Jan. 2024 - Present

- Developed code to manipulate medical data for model training using Python and R.
- Collaborated with bio-medical engineers for research in medical imaging analysis.
- Conducted image segmentation techniques to study MRI images.

Our Easy Game, Private Tutor

Jan. 2022-Present

- Offered guidance and support for students in software tools including Python, C++, SQL, and R.
- Contributed in workshops to help students understand programming domains such as Data Structures, Algorithms, and OOP.

Projects

Web-Application Development for FabricAid (Amazon Mentorship Program)

Jun. 2024 - Aug. 2024

- Built a web-application using react, Google Maps API, and AWS services.
- Developed a UI using JavaScript including a login page, donation and shop feature.
- Designed the database using AWS service Aurora and MySQL.
- Developed the back-end using python and AWS service lambda.
- Projected a 6% reduce in fabric waste in Lebanon.

Graphs Algorithms in C++

Feb. 2024 - Feb.2024

- Developed graph algorithm such as DFS, BFS, A*, and Dijkstra in C++ to manipulate data-structures.
- Implemented efficient-performance code to traverse data-structures such as linked-lists, graphs and trees.

Simple ToDo-List Application

Mar. 2024 - Mar. 2024

- Designed the application using HTML, CSS, and JavaScript.
- Implemented features such as adding and deleting tasks, and clearing the screen.

Simple Reliable Chatting Application Development

Mar. 2024 - Apr. 2024

- Designed and implemented a reliable chatting application using python, ensuring messages are delivered in order.
- Implemented a file transfer feature allowing peers to send files over a TCP connection.
- Formed a Graphical User Interface for the application using python.

Music Application Database Management System

May 2024 - May 2024

- Engineered a relational database schema to store critical information about songs, artists, and albums. The schema included tables for songs, artists, and albums.
- Established relationships between songs, artists, and albums using a dedicated relation table.
- Designed the essential queries to search the database using SQLite, PostgreSQL, and MySQL.

Leadership

Progressive Youth Organization, AUB office president

Sep. 2022 - Jan. 2024

- Spearheaded the student elections at the American university of Beirut, demonstrating strong leadership skills.
- Engaged in multiple workshops focused on enhancing teamwork, leadership, and peer communication skills, showing commitment to personal and professional development.

- Established communicated with other universities in order to execute local workshops and activities.

Skills

- **Programming Languages:** HTML, CSS, Python, C++, R, SQL, JavaScript, Verilog, MATLAB.
- **Software Skills:** AWS, Object-Oriented Programming, Data Structures, Algorithms, Software Development, Databases
- **AI and Machine Learning:** ML Algorithms, Statistics, Neural Networks, Data Pre-processing, Data Analysis, Computer Vision.
- **Language Skills:** English (Full proficiency), Arabic (Native Speaker)

Licenses and Certifications

- **Cisco Networking Academy:** Introduction to Data Science *Dec 2023*
- **Cisco Networking Academy:** Data Analytics Essentials *Dec 2023*
- **Cisco Networking Academy:** JavaScript Essentials *Jan 2024*
- **OpenCV University:** FREE OpenCV Bootcamp *Mar 2024*
- **Harvard CS50sql:** Introduction to Database Systems *May 2024*