

Rayan El Chaar

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PROFILE

Computer Science student with hands-on experience in software development, data analysis, and system-level programming. Strong foundation in algorithms, computer architecture, databases, and operating systems, with programming skills in Python, Java, C++, C, and Assembly. Currently expanding skills in artificial intelligence, cybersecurity, and data-driven applications, with a strong interest in building secure, efficient, and scalable software solutions.

EDUCATION

BS in Computer Science August 2023 – Expected Graduation June 2027
Accredited by **Computing Accreditation Commission of ABET**. ABET (Accreditation Board for Engineering and Technology)
Lebanese American University (LAU), Beirut, Lebanon

Life Science Lebanese Baccalaureate 2008 – 2023
Lebanese School of Qatar, Doha, Qatar

ACADEMIC PROJECTS

Database Management System — End-to-End Relational Database Project
Database Management Systems (CSC/BIF-375) | Lebanese American University. Jan 2026 – May 2026

- Designed a real-world relational database using ER modeling with multiple entities, including weak entities.
- Implemented the database on an Oracle Server, defining tables, primary/foreign keys, and integrity constraints, and populated relations with realistic datasets.
- Developed and executed complex SQL transactions, including multi-table JOINS, nested subqueries, aggregate functions, GROUP BY/HAVING clauses, and data modification queries.
- Applied BCNF normalization to optimize data integrity and reduce redundancy.

Document Similarity & Plagiarism Detection System
CSC310 – Algorithms & Data Structures | Lebanese American University Jan 2026 – May 2026

- Designed and implemented a Python-based document similarity and plagiarism detection tool.
- Implemented core algorithms from scratch, including custom hashing, sorting, and tree structures (BST).
- Applied text preprocessing and similarity techniques (Jaccard, shingling) to identify and rank similar documents.
- Engineered a modular system to analyze multiple files and generate ranked similarity reports efficiently.

COMPUTER SKILLS

Technical Skills: Python, Java, C++, SQL, HTML/CSS, LEGv8

Software & Tools: Eclipse, Spyder, VSC, ModelSim, VirtualBox(Linux).

Development & Problem-Solving Skills: Data Structures, Algorithm Design & Analysis, Database Design, Computer Organization & Architecture.

Professional Skills: Problem-Solving & Critical Thinking, Teamwork & Collaboration, Time Management & Multitasking.

CERTIFICATION PROGRAMS

CS50's Introduction to Artificial Intelligence with Python | Harvard University
Ongoing

CS50's Introduction to Cybersecurity | Harvard University Ongoing

CS50's Web Programming with Python and JavaScript | Harvard University Ongoing

EXTRACURRICULAR ACTIVITIES & VOLUNTEERSHIP

Volunteer – FIFA World Cup 2023

- Supported event operations and coordination in a fast-paced, high-pressure environment. *(Certificate awarded)*

Volunteer – Formula 1 Qatar Grand Prix 2025