

Abdelrahman El Samad

Student

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📄 PROFILE

A motivated Senior Computer Science student at the Lebanese American University, proficient in problem-solving and software development, with a passion for creating impactful solutions.

🎓 EDUCATION

BS Computer Science, Lebanese American University

January 2022 – present | Byblos

🔗 PROJECTS

Hospital Database Management System 🔗

- Designed an ER diagram and implemented a database with PostgreSQL to manage hospital data efficiently.

Calculator on Mars 🔗

- Built a calculator in Assembly language using the MARS simulator, showcasing proficiency in low-level programming.

Harmony Queue 🔗

- Developed an efficient music queue management system using Java, enabling seamless song enqueueing, dequeueing, and playback order management with stack-based implementation.

Secure File Transfer System 🔗

- Constructed a robust client-server file transfer application with both command-line and GUI interfaces, implementing multi-threading for concurrent client handling, secure file integrity verification using SHA256 hashing, and dedicated shared/download directories for efficient file management.

Android Application 🔗

- Application where users set allergies, diet types, macro/micronutrient targets, meal timings, budget, and cuisine preferences. Generates tailored meal plans with recipes, step-by-step instructions, grocery lists, and full nutritional breakdowns.

Full-Stack Web Development Project 🔗

- Implemented a comprehensive DevOps platform featuring secure user authentication, project and task management, and simulated CI/CD pipelines. Ensured data persistence with cloud-based PostgreSQL integration.

C/C++ Security Analysis Project 🔗

Performed security analysis on real-world C code (http) using Flawfinder; identified and remediated critical vulnerabilities like buffer overflows and unsafe string handling to enhance code safety and reliability.

🧠 SKILLS

Programming Languages: C | Java | Python | SQL | JavaScript | HTML/CSS

Concepts: Object-Oriented Programming | Algorithms and Data Structures

Databases: PostgreSQL

Tools: Ubuntu/Kali Linux | VSCode | PyCharm | Eclipse | Mars | pgAdmin4

Problem Solving: Dynamic Programming | Sorting Algorithms | Graphs | Recursion | Greedy Algorithms | Data Structures

Frameworks: Node.js | Spring Boot | React

🌐 LANGUAGES

Arabic: Native | **English:** Fluent | **French:** Intermediate