

Ali Al Rida Zreikat

Computer Science Undergraduate

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Profile

Computer Science undergraduate with foundational knowledge in programming and problem-solving, and experience working on academic projects. Actively developing practical skills in core computer science concepts and software development, and seeking an internship to gain hands-on experience in a professional environment.

Projects

Multi-Threaded Chat Application

December 2025

- Built a multi-client chat system in C using named pipes (FIFOs) and POSIX threads
- Implemented mutexes and semaphores to ensure thread-safe communication and prevent race conditions
- Designed a concurrent message broadcasting server with graceful client handling

Technologies Used:

C, POSIX Threads, Named Pipes (FIFOs), Semaphores, Mutexes, Unix/Linux

Zoo Management System

Balamand University | December 2025

- Developed a full-stack website for a theoretical zoo allowing users to view and explore animals
- Implemented advanced search and filtering by name, diet, endangered level, continent, and region
- Built user authentication (sign up / log in) to enable ticket purchases and donations
- Designed backend logic to handle animal data, user actions, and transactions via APIs

Technologies Used:

Node.js, Express.js, PostgreSQL, HTML, CSS, JavaScript, RESTful APIs, Postman



Education

Bachelor of Computer Science

Balamand University | 2024 - 2027

Life Science Baccalaureate

La Cime 3 | 2023 - 2024

Skills

C++	<div><div></div></div>
Data Structures	<div><div></div></div>
Algorithms	<div><div></div></div>
SQL, MySQL	<div><div></div></div>
Web Development	<div><div></div></div>
Cisco Packet Tracer	<div><div></div></div>
Java	<div><div></div></div>
CSS	<div><div></div></div>
Node.js	<div><div></div></div>
EJS	<div><div></div></div>
HTML	<div><div></div></div>
Networking	<div><div></div></div>

Languages

English	<div><div></div></div>
Arabic	<div><div></div></div>

Array-Based Linked List Management System (C++)

November 2025

- Implemented a linked list using a fixed-size array and index-based pointers (no dynamic memory allocation)
- Designed a node pool with free-list management to simulate memory allocation and deallocation
- Implemented core list operations: insertion, deletion, search, traversal, and deep copy
- Applied strong data structures concepts including linked lists, free lists, and manual memory management

Technologies Used:

C++, Data Structures, Linked Lists, Array-Based Memory Management, Free List / Node Pool

Home Management System

Balamand University | December 2025

- Designed and implemented a basic home management system using Java and Object-Oriented Programming principles.
- Implemented core features such as room/ device management and user interactions.
- Strengthened understanding of class design and code organization.

Technologies Used:

Java, Object-Oriented Programming

Soft Skills

Problem-solving
Analytical thinking
Attention to detail
Time management
Adaptability
Team collaboration
Written communication
code Accuracy

Hobbies

Coding practice
Photography
Ethical Hacking
Programming challenges
Chess / Logic puzzles