

# Ali Al Rida Zreikat

Computer Science Undergraduate



+961 76 750 073



alialridazreikat@gmail.com



Lebanon, Koura



## 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

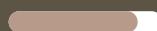
Balamand University | 2024 - 2027

### Life Science Baccalaureate

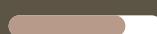
La Cime 3 | 2023 - 2024

## Skills

C++



Data Structures



Algorithms



SQL, MySQL



Web Development



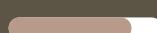
Cisco Packet Tracer



Java



CSS



Node.js



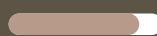
EJS



HTML



Networking

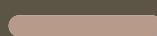


## Languages

English



Arabic



## 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