

# Mohammad Hussein

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## Profile

Computer Science graduate with a strong foundation in object-oriented programming, algorithms, and system-level development. Currently enrolled in the 42 Beirut intensive peer-to-peer curriculum, where I design and implement complex projects in C, C++, and Java with a focus on multithreading, memory management, and process control. Passionate about building reliable, efficient solutions and eager to apply my skills in an environment where continuous learning, problem-solving, and collaboration are core values.

## Skills

- **Languages:** C, C++, Java, C#, Python, PHP, JavaScript, TypeScript
- **Concepts:** Object-Oriented Programming, Data Structures & Algorithms, Concurrency & Multithreading, System Programming
- **Frameworks & Tools:** ASP.NET, Next.js, React, NestJS, Laravel, Android Studio, Git, Docker, VirtualBox
- **Operating Systems:** Linux, Shell Scripting

## Projects

### PHILOSOPHERS

Dining Philosophers Problem Simulator

- Built a multithreaded program simulating the dining philosophers concurrency problem.
- Implemented mutexes and thread synchronization to prevent deadlocks.
- Gained practical knowledge in concurrency control and resource management.

### MINISHELL

Unix Shell Implementation

- Developed a simplified Unix shell in C as part of the 42 curriculum.
- Implemented parsing, piping, redirections, and environment variable handling.
- Reinforced understanding of process creation, inter-process communication, and memory management.

## Education

### LEBANESE UNIVERSITY

Bachelor's in Computer Science (2022-2025)

### 42 BEIRUT

42 Peer-to-peer Programming Curriculum (Ongoing)