HAMZA ELMOUEDDANNE

C++ Developer

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ABOUT ME

Motivated C/C++ Developer with a focus on creating efficient algorithms and strong solutions to improve application performance. I aim to use my C/C++ skills to tackle challenging problems and contribute to impactful projects in the tech industry.

PROJECTS

42 IRC (C++ Developer)   11/2024 - 12/2024

- Built an IRC server using C++ that follows standard IRC protocols, allowing real-time chat.
- Supports essential commands like *JOIN* and *PRIVMSG* for communication and channel management.
- Manages connections from multiple users, ensuring smooth messaging between them.

42 C++ (C++ Developer)   09/2024 - 10/2024

- Explored fundamental *OOP* concepts such as inheritance, polymorphism, and encapsulation.
- Focus on operator overloading, memory management, and templates for more dynamic code.
- Built through a series of modules that progressively cover complex C++ features including file handling, exception management, and standard containers

Minishell (C Developer)   04/2024 - 05/2024

- Developed a simplified shell that mimics features of bash, handling input parsing, execution, and redirection of commands.
- Implemented a command interpreter that supports built-ins, pipes, redirections, and environment variable expansion.

Philosophers (C Developer)   12/2023 - 01/2024

- Designed and implemented a multi-threaded simulation of the Dining Philosophers problem, focusing on concurrency and resource management.
- Utilized threading and mutexes to ensure proper synchronization and avoid deadlocks in a multi-client environment.
- Optimized process control and memory handling for real-time execution.

EDUCATION

1337 (42 Network)   2022 - ongoing
Computer Science

Oasis de la Connaissance   2021 - 2022
Professional Electricity

SKILLS

C/C++ - OOP - Memory Management - Multithreading - STL - Git