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EDUCATION

1337 Coding School

Khouribga, Morocco

Computer Science

PROJECTS

WebServ - HTTP/1.1 web server - C++

- Capable of handling GET, POST and DELETE requests using an event-driven architecture with Kqueue.
- Static file serving and dynamic content generation using CGI with support of (php, py, js, pl, sh) file extensions.
- Support for cookies and session management with two dynamic applications in C++ and Python as examples.

Ft_Transcendence - Online Multiplayer Gaming Platform - TypeScript, Python

- Capable of running multiple games between different users concurrently using Django.
- Offers Complete Users management system with three different authentication methods.

Next-Gravity-Demo - Physics Simulation - TypeScript

- Built an interactive gravity simulation with smooth real-time particle movement.
- Optimized performance for responsive and efficient physics updates...
- Developed using Next.js, TypeScript, Prisma, and SQLite...

Trading-Client - High-Performance Trading System - C++

- Built a real-time order execution and management system for crypto trading.
- Implemented WebSocket-based market data streaming.
- Used the Deribit API to retrieve market data and execute trades.

MetallC64 - Emulator of the Commodore 64 home computer (C64) - C

- Implemented complete CPU emulation, memory management, hardware timing simulation with partial accuracy
- Developed a custom debugger which lets you view the contents of RAM, VIC-II registers, CIA 1 and 2 registers

Ft nmap - Ports scanning tool - C

- Support the SYN, ACK, FIN, NULL, XMAS, and UDP scans
- Able to identify services by comparing ports and transport protocols to the NMAP services-database
- Provided a set of options to Customize scan behavior like specifying custom TCP flags combinations

MiniShell - Unix Shell - C

Provided basic shell features such as command execution, piping and redirection.

Trc Route - Network traceroute utility - C

Developed a network diagnostic tool to trace packet routes using raw sockets...

6502 CPU Emulator - Emulator of the MOS 6502 8-bit Microprocessor - C

- Fully supports all 151 instructions, 13 addressing modes, and cycle accuracy.
- Added visualisation using the Neurses library, allowing for real-time observation of the CPU behavior.

SKILLS & INTERESTS

• Skills: Full Stack Web Development, JavaScript, Python, Django, Version Control (Git), C, C++, Software Development, Object Oriented Programming, Network & system administration