

AYOUB SOUDANI

DevOps & Backend Developer

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PROFILE

Second-year student at 1337 Coding School (UM6P - 42 Network), deeply engaged in low-level software engineering and systems programming. Core focus on DevOps and infrastructure, building microservices, containerization pipelines, and monitoring systems. Active community builder and event organizer within the Moroccan tech ecosystem.

EXPERIENCE

President | **Leets Events Club** 2023 – 2024

- Led a 10-person student board coordinating logistics, space management, and multi-campus collaborations.
- Organized a 120-guest formal event and a two-day multi-discipline campus tournament.

1337 CODING SCHOOL — KEY PROJECTS

C • Process Management • POSIX | **Minishell** 2024

- Built a Unix shell from scratch supporting pipes, redirections, and built-in commands; deepened expertise in fork/execve, file descriptors, and signal handling.

C • Concurrency • Threads | **Philosophers** 2024

- Simulated the Dining Philosophers problem with pthreads and mutexes, eliminating deadlocks and race conditions through precise synchronization design.

C++ • Networking • HTTP/1.1 | **Webserve** 2024

- Built a production-grade HTTP/1.1 server in C++ with CGI support and non-blocking I/O (epoll/select); scored 125/100.

Docker • DevOps • System Administration | **Inception** 2024

- Deployed a fully containerized NGINX + WordPress + MariaDB stack via Docker Compose, writing all Dockerfiles from scratch with hardened configurations.

DevSecOps • Microservices | **ft_transcendence** 2024 – Present (In Progress)

- Leading the DevSecOps side of a large-scale team project — managing containerization, CI/CD pipelines, secrets handling, and infrastructure security.

EDUCATION

1337 Coding School (UM6P — 42 Network)

Computer Science

2024 – Present

Ibn Zohr University

English Studies

2021 – 2024

SKILLS

Languages

C++, C, Python, Bash

DevOps & Infra

Docker, Docker Compose, Microservices, HashiCorp Vault, CI/CD

Monitoring

Prometheus, Grafana, Centralized Logging

Systems

Linux Internals, HTTP/1.1 Protocols, I/O Multiplexing (epoll, select), Memory Management