Salah Eddine Bouaa

Software Engineering Student

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Profile

Software Engineering student at 1337 (42 Network), expected to graduate in January 2027, with project experience in C/C++ systems programming, Linux, TCP networking, and team-based web development (Next.js, NestJS, PostgreSQL). Seeking a four- to six-month final-year internship starting January 2027.

Technical Skills

Languages: C, C++98, C++11, TypeScript, JavaScript, Bash
Systems & Networking: Linux, TCP/IP, TCP sockets, POSIX, epoll
Web & Backend: Next.js, NestJS, PostgreSQL
Tools & Debugging: Git, Make, Docker, Docker Compose, NGINX, GDB, Valgrind

Projects

Wemeet - Social Meetup Platform Team project | In progress
Next.js, TypeScript, NestJS, PostgreSQL, Docker

- Contributing to a team-built platform that connects users through real-life activities and temporary group interactions.
- Implementing the profile page (user photos and posts in a social media-style layout) and the settings page.
- Developing the Admin Dashboard for reviewing and managing users, posts, and activity slots, and integrating it with the platform API.

Inception - Containerized Web Application School project
Docker, Docker Compose, Linux, NGINX

- Built a multi-container application with Docker Compose, using isolated services, persistent storage, and container networking.
- Configured NGINX as a reverse proxy serving the application over TLS.

ft_irc - IRC Server School project
C++98, TCP sockets, Linux, epoll

- Built an IRC server in C++98 that serves multiple clients concurrently using non-blocking TCP sockets and a single epoll-based event loop.
- Implemented password authentication, nicknames, channels, and operator commands (KICK, INVITE, TOPIC, MODE).

minishell - Unix Shell School project
C, Linux, POSIX

- Built a Unix-style shell in C with command history, PATH lookup, pipelines, input/output redirection, and environment variables.
- Implemented built-ins (echo, cd, pwd, export, unset, env, exit) and Ctrl-C and Ctrl-D handling.

Philosophers - Concurrency and Synchronization School project
C, POSIX threads, Mutexes, Linux

- Implemented the dining philosophers problem in C using POSIX threads, with one thread per philosopher and one mutex per fork.
- Designed fork-acquisition and timing logic to avoid deadlock and starvation.

NetPractice - Network Configuration School project
TCP/IP, IP addressing, Subnetting, Routing

- Configured IP addresses, subnet masks, routing tables, and default gateways to establish connectivity across multi-network topologies.

Community Experience

1337 Coding School (42 Network) *Peer Mentor*

- Conducted 300+ peer evaluations of student projects, reviewing code quality, debugging approaches, and memory management.
- Explained technical issues and gave constructive feedback to project authors.

Education

1337 Coding School (42 Network) Khouribga, Morocco
Advanced Software Engineering & Computer Science 2024 to Present (expected graduation: January 2027)

Languages

Arabic (Native) | English (Intermediate) | French (Intermediate)