

ABDELLATIF EL FAGROUCH

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PROFESSIONAL SUMMARY

Full-stack developer and Software Engineering student at **1337 (42 Network)**. Passionate about building scalable web applications and low-level systems. Experienced in TypeScript, C++, and DevOps. Currently seeking an internship to apply technical problem-solving skills in a professional environment.

EDUCATION

1337 Coding School (42 Network)

Software Engineering (Advanced Program)

Khouribga, Morocco

Nov 2023 — Mar 2026

- Developed deep expertise in C/C++, Algorithms, and Unix System Programming.
- Mastered peer-to-peer learning and rigorous project-based curriculum (100% practical).

Faculty of Law (FSJES)

DEUG in Law

Agadir, Morocco

2020 — 2022

TECHNICAL SKILLS

Languages: JavaScript (TypeScript), C, C++, HTML5, CSS3, SQL, Shell (Bash)

Frameworks/Web: React, Next.js, Node.js, Express.js, Fastify, Tailwind CSS

DevOps/Tools: Docker, Docker Compose, Nginx, Git, Linux (Debian/Ubuntu), Prisma ORM

Databases: MariaDB, MySQL, MongoDB, SQLite, PostgreSQL

SELECTED PROJECTS

RH-Connect | Applicant Tracking System

React, Express.js, MySQL, Prisma

- Developed a full-stack platform to streamline recruitment, featuring role-based access for recruiters and candidates.
- Optimized database queries using Prisma ORM, improving data retrieval speeds for applicant filtering.
- Implemented secure authentication and a responsive dashboard for tracking application statuses.

IRC Server

C++, Networking (TCP/IP), Socket Programming

- Engineered a fully functional IRC server following the **RFC 2812** protocol from scratch.
- Handled multiple concurrent client connections using non-blocking I/O and `poll()` for high-efficiency multiplexing.
- Implemented core features: private messaging, channel management, and operator commands.

Inception (DevOps)

Docker, Docker Compose, Nginx, WordPress, MariaDB

- Built a localized cloud infrastructure using Docker Compose to orchestrate multiple interconnected containers.
- Configured an Nginx TLS/SSL gateway to secure traffic between services on a dedicated Docker network.
- Automated deployment and volume management to ensure data persistence across system reboots.

RayFlow Engine (Cub3D)

C, Raycasting, Graphics, Math

- Created a 3D game engine using raycasting principles (similar to Wolfenstein 3D).
- Handled complex texture mapping, sprite rendering, and collision detection using low-level graphics libraries.

Personal Portfolio

Next.js, TypeScript, Tailwind CSS

- Built a high-performance portfolio to showcase over 30 projects with optimized SEO and accessibility.