

# Mohamed EL Karmi

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📅 14/02/2004

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## 📄 PROFILE

I am a **passionate full-stack developer** with a strong foundation in **C, C++, and modern web technologies** like React, Next.js, and Docker. With **two and a half years of programming experience** and a background in **problem-solving from 1337**, I love building efficient and scalable applications. I thrive on **learning new technologies**, tackling complex challenges, and collaborating on impactful projects. I am always eager to push my skills further. Currently, I'm looking for an **internship where I can grow as a developer** while contributing meaningfully to a tech team.

## 🌐 LANGUAGES

English ● ● ● ● ●

Arabic ● ● ● ● ●

## 📁 PROJECTS

### Transcendance (Full-Stack Web Application)

Developed a **real-time multiplayer web app** as part of my 42 curriculum final project. Built the **frontend using Next.js and Tailwind**, while the **backend uses Django and PostgreSQL**. Integrated **authentication (2FA)**, **WebSockets for real-time interactions**, and **Docker for containerization**. The project reinforced my skills in **scalability, security, and full-stack development**.

### Minishell (Custom Shell in C)

Built a lightweight Unix shell in C, replicating Bash functionalities. Implemented command parsing, environment variables, process handling (fork, execve, waitpid), and redirections. Focused on memory management (malloc/free) and avoiding leaks using valgrind. This project deepened my understanding of system calls and low-level programming.

### IRC Server (Real-Time Chat Application in C++)

Designed and implemented a **custom IRC server** in C++, supporting **multi-client communication, channels, authentication, and basic chat commands**. Used **poll/select for handling multiple connections** efficiently. The biggest challenge was ensuring **stable and concurrent communication between users** while maintaining **performance and security**.

### Rest of 42 Projects

Mainly C and C++ projects, and Docker

## 🎓 EDUCATION

### 42/1337 Software Engineering Program

1337

10/2022 – present | Khouribga, Morocco

### Scientific Mathematics and Computer Science (SMIA)

Université sultan moulay slimane khouribga

10/2021 – present | Khouribga, Morocco

## 🧠 SKILLS

C/C++ ● ● ● ● ●

ReactJS/NextJS ● ● ● ● ●

TailwindCSS ● ● ● ● ●

JavaScript ● ● ● ● ●

Docker ● ● ● ● ●

NodeJS ● ● ● ● ●