

# OUSSAMA REDOINE

Full Stack Developer

oussamaredoine06@gmail.com | +212775827999

Portfolio | GitHub | LinkedIn

## PROFILE

**Full Stack Developer** with a strong foundation in software development and hands-on experience in web application development. Skilled in **React (Next.js)**, **Django**, and experienced with **Docker** and **RESTful APIs**. Focused on building real-world projects and growing in collaborative teams.

## EDUCATION

**1337 Coding School (42 Network)**

Computer Science

Khouribga

2022 - Present

**Ecole Supérieure de Technologie Berrechid**

Diploma in Computer Engineering (DUT)

Berrechid

## SKILLS

**Languages:** C, C++, Python, JavaScript, TypeScript

**Libraries/Frameworks:** React, Next.js, Django

**Tools / Platforms:** Git, GitHub, Docker

**Databases:** PostgreSQL, Prisma, Redis

**Concepts:** REST APIs, CI/CD, Unit testing

## PROJECTS

### Smash Pong 🎮

*Django, React, Docker, PostgreSQL*

A Full Stack single-page multiplayer ping pong web application with real-time gameplay and user management features.

- Developed a responsive frontend with **React** and backend with **Django REST Framework**, handling authentication, notifications, friendships, and friend requests.
- Enabled real-time multiplayer gameplay using **Django Channels** and **WebSockets** for smooth in-game interactions.
- Designed and implemented RESTful API endpoints for game and channel management to support user and admin operations.
- Integrated a **PostgreSQL** database using **Django ORM** for efficient data storage and retrieval.
- Deployed the application with **Docker** for reliable containerization and scalability.

### IRC Server 🎮

*C, C++, Non-blocking I/O*

A fully functional IRC server implementing core IRC protocol commands for real-time channel management

- Implemented IRC commands (JOIN, PART, KICK, INVITE) enabling users to join, leave, and moderate channels precisely.
- Developed command handling compliant with RFC 1459 for robust user and channel management.
- Utilized non-blocking I/O to handle multiple client requests concurrently, ensuring high responsiveness.
- Optimized server performance to support real-time interactions under heavy load.

### Inception 🎮

*Docker, NGINX, WordPress, MariaDB*

A secure Docker-based infrastructure project deploying web services in isolated containers

- Set up and configured containers for **NGINX**, **WordPress**, and **MariaDB** with secure networking.
- Ensured data persistence using **Docker volumes** to maintain state across container restarts.
- Created an **isolated Docker network** to enhance service communication security.