

MOHAMED REGRAG

SOFTWARE ENGINEER

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SUMMARY

Student at 1337 Coding School (42 Network). Experienced in C/C++ programming, web development and DevOps practices. Through various projects, learned system programming, web technologies and deployment. Passionate about understanding computers, web development, and DevOps workflows

PRACTICAL EXPERIENCE

Minishell (C)

August 2024

- Built a Unix shell with command parsing, pipes, redirections, and environment variable handling.
- Implemented execution, pipes, and built-in functions using system calls.
- Strengthened knowledge of processes, signals, and low-level memory management.

Web Server (Webserv) (C++)

July 2025

- Implemented a lightweight HTTP server following RFC standards.
- Developed request parsing, response handling, CGI execution, and persistent connections.
- Gained expertise in networking, sockets, and event-driven architecture.

Inception (Docker, DevOps)

August 2025

- Designed and deployed a multi-service infrastructure using Docker.
- Configured Nginx, WordPress, MariaDB, and custom services with secure networking.
- Developed practical skills in container orchestration and DevOps practices.

PingPong (React, TypeScript, Fastify, WebSockets)

September 2025

- Built a full-stack multiplayer Pong game with real-time chat features.
- Implemented authentication, responsive UI, and scalable backend architecture.
- Focused on real-time communication and modern web development best practices.

SKILLS

- Programming Languages: C, C++, Python, TypeScript, JavaScript, Shell Script
- Web Development: React, Fastify, Express, NextJS, HTML, CSS
- DevOps & Infrastructure: Docker, Nginx, Sqlite, PostgreSQL,
- System & Networking: Unix/Linux, Sockets, Processes, Signals, bash
- Tools & Workflow: Git, GitHub, nvim, Vim
- Core Competencies: Problem-Solving, Communication, Team Collaboration, Adaptability

EDUCATION

Université Abdelmalek Essaâdi — Engineering Physics

November 2016 – May 2020

- Studied mathematical concepts and physical sciences
- Developed analytical and problem-solving skills
- Built a strong foundation in logical reasoning and scientific methodology

1337 Coding School (42 Network) — Computer Science / Software Engineering

October 2023 – Present

- Intensive project-based and peer-to-peer learning environment
- Hands-on experience in algorithms, C/C++, web development, DevOps, and full-stack applications

ADDITIONAL INFORMATION

- **Languages:** English, Arabic
- **Awards/Activities:** Peer Project Recognition — 1337 Coding School, 2024, effective teamwork and communication in group assignments, Guided new students through introductory projects and peer-to-peer learning sessions