

# Mustapha Jlem Software Engineer

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## EDUCATION

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### 1337 Coding School (42 Network)

Morocco

*ERP Developer Intern*

- Completed rigorous project-based curriculum focused on problem-solving, algorithms, and full-stack development in a peer-driven environment.
- Intensive peer-driven curriculum focused on algorithms, data structures, system design, and full-stack development.
- Built and deployed real-world projects emphasizing problem-solving, scalability, and software architecture.

## EXPERIENCE

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### Dynamic Horizon

Nov. 2024 – Dec. 2024

*ERP Developer Intern*

- Developed an **API** to integrate **Odoo** with **ChatGPT**, enabling automated responses and enhanced **ERP** functionalities.
- Designed and implemented a payslip PDF template in **Odoo**, improving document generation efficiency.

## PROJECTS

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### Full-Stack Web App

- Developed a real-time multiplayer Pong game platform using **NestJS** for backend operations and **Next.js** for frontend development
- Integrating **PostgreSQL** for robust data management and implementing comprehensive security measures, including **OAuth** for user authentication.
- Implemented real-time communication features using **WebSocket** to enable live chat functionalities, significantly enhancing user interaction and engagement on the platform.

### Custom Web Server

- Built a custom **HTTP** server in **C++**, supporting multiple HTTP methods, file uploads, and static content serving.
- Implemented **non-blocking I/O operations** for scalability and performance similar to Nginx.
- Added **CGI execution, session management, and advanced error handling** for robustness.

### Docker Infrastructure

- Developed and managed **Docker**-based infrastructure using custom **Dockerfiles** and **Docker Compose**, orchestrating essential services such as **NGINX**, **WordPress**, and **MariaDB**.

### Minishell

- Developed a **Bash-like command-line interface** supporting built-in commands (**cd**, **echo**, **exit**), piping, and redirections.
- Implemented **process management, environment variable handling, and system call execution (fork, execve)**.

## SKILLS

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- **Languages:** C++, C, JavaScript, TypeScript, Python, Bash.
- **Technologies:** Docker, Linux, Node.js, Express, Nest.js, Flask, Next.js, Tailwind CSS, React, HTML, CSS, GIT, GitHub, GNU Make, PostgreSQL, Prisma.