

# Nouhaila Bouljihad

Computer System Architect

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## EDUCATION

Diploma in Computer Systems Architecture  
Khouribga, Morocco

1337 Khouribga (42 Network) 2022

## HIGHLIGHTED SKILLS

- **Group & Interpersonal Skills:** Demonstrated collaboration, relationship building, and management in various group settings, managing both friendly interactions and conflicts.
- **Languages:** C, C++, C#, HTML, CSS, JavaScript, TypeScript,python,bash
- **Frameworks/Libraries:** ReactJS, Next.js, Blazor, Tailwind CSS, Material UI, .Net, Syncfusion
- **Tools/Technologies:** Docker, Linux, SQL, DOM, UI/UX Design, Computer Systems, github, Figma

## EXPERIENCE

Freelance Front-End Developer – Moganomad Hotel Website | 2025

- Implemented the front-end of a hotel website for Moganomad in Essaouira using Next.js.
- Translated Figma design mockups into a fully responsive and pixel-perfect web interface.
- Integrated smooth routing, image optimization, and performance enhancements.
- Collaborated with the client and designer to ensure accurate design-to-code execution.

Junior Developer – CCS-Power

Manufacturing Execution System (MES) | Apr 2024 – Apr 2025

- Assisted in building a real-time MES platform for the animal feed industry using **Blazor**.
- Conducted comprehensive functional and regression testing, identifying 20+ bugs pre-release.
- Improved QA workflow by integrating checklists and collaborative feedback cycles.
- Contributed to UI refinement and ensured performance on low-bandwidth networks.

## PROJECTS

Inception

Shell,Docker,HTML,CSS

- Setting up a compact infrastructure made up of various services, each following specific rules.
- The entire system is implemented within a virtual machine environment, using Docker files and Docker Compose to manage and orchestrate the services.

Ft\_IRC

C++,Makefile,sockets, Networks

- Developed an IRC server in C++ compliant with RFC 2812. Managed multiple client connections and implemented standard IRC commands (JOIN, PRIVMSG, etc.) along with advanced features such as authentication, channel management, and real-time communication.
- Tested and validated with popular IRC clients like irssi and Weechat, ensuring reliability and protocol compliance.

Ping-Pong Game Web App

Next.js and Tailwind CSS

- Developed an interactive browser-based ping-pong game using Next.js and Tailwind CSS
- Implemented dynamic animations and real-time event handling
- Improved user interface responsiveness and reduced load time by 25%.

## CERTIFICATIONS

- **Certificate of Participation, MNPC22**  
Participated as a coach in the Moroccan National Programming Contest (MNPC), achieving a 9th place finish out of 90 participants.