

# Khadija Anhayfou

## Front-End Developer

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### Profile

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1337 student with a solid foundation in software design, development, and testing. Looking to apply my growing skills and knowledge in front-end development through a hands-on internship and contribute to real-world software projects.

### Education

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UM6P - 1337 Coding School (42 Network)

Oct 2022 – present

Baccalaureate in Economic Sciences (High School Diploma)

### Projects

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**Ft\_transcendence** *Figma, HTML, CSS, JavaScript, React, Python, Django, Django Rest Framework, Docker*

- Developed a real-time communication server in Python with WebSocket support for two-way client-server communication.
- Designed a scalable client-server architecture to handle multiple simultaneous connections and ensure efficient data handling.
- Managed backend server operations (user authentication, data processing) in Python, while using JavaScript for frontend-backend interaction via APIs.
- Applied network programming to handle socket communication and maintain persistent connections.
- Designed the user interface of the application in Figma, focusing on intuitive navigation and a seamless user experience.

**Ft\_irc** *C++*

- Built a fully functional IRC server in C++, enabling real-time communication and messaging.
- Implemented essential features like user authentication, channel management, and direct messaging.
- Used socket programming for scalable, stable client-server connections supporting multiple users.
- Handled errors (e.g., client disconnects, invalid inputs) with clear user feedback.
- Developed an intuitive command interface, compatible with existing IRC clients.

**Minishell** *C*

- Developed a custom C shell mimicking Unix shell functionalities (e.g., bash), including command execution, environment handling, and input parsing.
- Implemented system calls (fork, execve, waitpid) for process management and executed internal commands (cd, exit, env).
- Designed a robust input parser supporting command-line arguments, redirection, and piping for accurate program execution.

### Skills

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

**Web Technologies:** HTML, CSS, React, Django, Django Rest Framework

**Tools & Platforms:** Figma, Git, Docker, Linux

**Databases:** PostgreSQL

### Languages:

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**English:** Intermediate (Written and Spoken)

**French:** Intermediate (Written and Spoken)

**Tamazight:** Fluent (Written and Spoken)

**Arabic:** Fluent (Written and Spoken)

**Spanish:** Beginner

**Chinese:** Beginner