Hamza MOUHIB
Software Developer

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Projects

FT_Transcendence (Flask, Node.js, TypeScript, Prisma, SQLite) — Aug 2025 - Oct 2025
Team Project

- **Full-Stack Web Application**: Contributed to a multiplayer Pong web application featuring user authentication, friend management, and real-time chat using **Flask** and **Node.js** with **TypeScript**.
- **Backend Development & Leadership**: Led the backend development, splitting tasks, managing GitHub workflow, and ensuring smooth collaboration with the frontend team.
- **Database Management**: Modeled and managed data for users, friends, matches, and chat messages using **Prisma ORM** with **SQLite**.
- **Authentication & Security**: Implemented secure user authentication system, including session handling, OAuth2 support, and two-factor authentication (2FA).
- **Team Collaboration**: Worked closely with team members to integrate backend services with frontend, maintaining code quality and project organization.

Inception (Docker, Makefile, Docker Compose, Bash scripting) — June 2025 - July 2025
Solo Project

- **Containerization with Docker**: Containerized the application using Docker, ensuring a consistent and reproducible environment for development, testing, and deployment across different systems.
- **Docker Compose**: Utilized Docker Compose to manage multi-container applications, simplifying the orchestration of different services and ensuring seamless communication between containers.
- **Automation with Bash Scripts**: Developed Bash scripts to automate container setup, configuration, and deployment tasks, improving productivity and reducing manual errors.

HTTP WebServer (C++, Makefile) — Jan 2025 - April 2025
Team Project

- **HTTP Request Parsing**: Implemented full HTTP request parsing, including headers, methods (GET, POST, etc.), and body content, ensuring accurate request handling for the server.
- **Configuration File Parsing**: Developed a parser for the server configuration file with syntax similar to Nginx, enabling flexible and dynamic server setup.
- **Session Management**: Handled sessions and state tracking, allowing persistent user data across multiple requests and improving server functionality.
- **CGI Scripting**: Wrote CGI scripts in Python and Bash to generate dynamic content in response to client requests.
- **Networking Fundamentals**: Gained practical experience with sockets and basic network programming in C/C++, enhancing understanding of low-level server operations.

Education

1337 Coding School, UM6P — Nov 2023 - Oct 2025
Software Engineer — Backend

Faculty of Applied Sciences Ait Melloul, Ibn Zohr — Sep 2021 - Jul 2023
Physics & Chemistry

Programming Skills

- **Programming Languages**: Python, C, C++, Go, JavaScript, TypeScript, HTML5, CSS3, Bash

- **Frameworks & Libraries**: ExpressJS, FastifyJS, PythonFlask

- **Databases & ORM**: MongoDB, SQLite, Prisma

- **Tools & DevOps**: Make, CMake, Git, Docker, Docker Compose, Nginx, Jest, Node, Bun