

AYMAN BOUABRA

Full Stack Developer | Software Engineer

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PROJECTS

Zovo

<https://github.com/abouabra/Zovo>

Real-time messaging platform.

- **Spring Boot** backend with **Spring Data JPA** and **Redis** for secure, scalable messaging APIs, rate limiting, and session storage.
- Real-time chat and presence powered by **STOMP/WebSocket** integration.
- Dynamic, responsive frontend using **React 19**, **Next.js 15**, **TypeScript**, and **Tailwind CSS**.
- Fully containerized architecture with **Docker Compose** streamlines deployment and ensures data persistence.

Digit Vision

<https://github.com/abouabra/DigitVision>

Interactive Convolutional Neural Network Digit Recognition

- Real-time handwritten digit recognition with **PyTorch** and MNIST via an intuitive drawing interface showing predictions and confidence.
- Layer-by-layer activation maps and filter responses plus an interactive 3D t-SNE embedding using **Three.js**.
- Responsive **Next.js (React, shadcn)** frontend delivering seamless AI visualizations on desktop and mobile.

Editly

<https://github.com/abouabra/Editly>

Real-time collaborative document editing platform.

- Real-time multi-user editing with presence indicators using **Liveblocks**, **Convex**, **Next.js 15**, **React 19**, and **shadcn**.
- Rich text capabilities tables, headings, lists, and image uploads via **Tiptap**.
- Secure authentication and role-based access with **Clerk** plus an integrated commenting system with user tagging.

42 Transcendence

https://github.com/abouabra/ft_transcendence/

Real-time online multiplayer arcade platforms.

- Real-time multiplayer gameplay and social features powered by **Django REST Framework**, **WebSockets**, and **JWT** authentication.
- Immersive 3D arcade environment built with **Three.js** in a component-based **SPA**.
- Scalable **microservices** deployment via **Docker & Docker Compose**, monitored with **Prometheus** and **Grafana**.

42 WebServ

<https://github.com/abouabra/42-webserv>

Custom HTTP/1.1 server built in C++.

- **NGINX**-inspired architecture in **C++** with full **HTTP/1.1** compliance supporting GET, POST, and DELETE methods.
- Dynamic and static content handlers—including file uploads, HTTP redirects, cookie management, and session tracking.
- Flexible configuration system for custom server blocks and routes, optimized for performance through manual **C++** memory management.

42 Inception

<https://github.com/abouabra/42-inception>

Containerized web development ecosystem.

- Dockerized **microservices** with **NGINX** reverse proxy, **WordPress** CMS, **MariaDB** database, and **Redis** caching for optimized performance.
- Persistent volume management and secure **FTP** server for reliable file storage and transfers.
- **Adminer** integration for streamlined database management and monitoring.

SUMMARY

Full-stack developer with experience building real-time web applications, collaborative tools, and interactive interfaces. Skilled in modern frontend frameworks like React and Next.js, and backend development using Spring Boot and Django. Comfortable working across the stack with a strong understanding of Web Sockets, REST APIs, authentication and containerized deployment using Docker.

EDUCATION

Computer Science Degree

1337 Coding School

09/2022 - 03/2025

SKILLS

Client-Side

React Next JavaScript TypeScript

Tailwind CSS Bootstrap Shadcn

Chakra UI Figma

Server-side

Java Python C++ C

Spring Boot Django REST Framework

Firebase Postgres

Development & Operations

Docker Docker Compose Git Redis

NGINX

LANGUAGES

Arabic Native

English Proficient

STRENGTHS

Team Player

Communicates and contributes effectively

Curious Mind

Always eager to learn more and explore new ideas