

AYMAN BOUABRA

Full stack Developer

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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 platform.

- 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.

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	Shadcn
Chakra UI	Figma	

Server-side

Java	Python	C++	C
Spring Boot	Django REST Framework		
Firebase	Postgres		

Development & Operations

Docker	Docker Compose	Git
Prometheus	Grafana	Redis
NGINX		

LANGUAGES

Arabic	Native
English	Proficient