Ayoub Elmohamedi

Full-Stack Developer — Web Development, Systems Programming & Cloud

ayoubprog61@gmail.com | github.com/ayoubelmohamedi | +212 637058097

Profile

Full-Stack Developer specializing in modern web technologies and systems programming. Experienced in building scalable web applications with React, Next.js, and Node.js, integrating AI-powered solutions, and implementing DevOps practices. Proven track record of delivering client-focused solutions from concept to deployment while maintaining clean, efficient code.

Education

UM6P - 1337 Coding School — Benguerir, Morocco

Information Technology Architecture — *Sep. 2023 – Present*

Experience

Full-Stack Developer — Feb. 2025 – Sep. 2025

MBP Web Agency — *Remote*

- Contributed to the creation and ongoing maintenance of the agency's website (mbpweb.agency), ensuring optimal performance and user experience
- Developed **MagCV+** for Mag Management Group using Next.js, Supabase, TypeScript, and TailwindCSS
- Optimized OpenAI GPT-4.1 integration with Supabase Edge Functions for cost-effective file processing
- Built comprehensive dashboard with role-based authentication for admins and staff to manage, enhance, and analyze consultant resumes across multiple formats
- Led full website rebranding and development for **AnticaExperience**, a travel agency, conducting client meetings and translating requirements into creative design solutions

Projects

Rental Marketplace Platform | *FastAPI, PostgreSQL, JWT, Typescript* — Oct. 2025 – Dec. 2025

- Designed and implemented a full-stack rental marketplace connecting tenants with property owners
- Built a RESTful backend with FastAPI using clean architecture, rigorous validation, and separated business logic
- Implemented secure authentication and role-based authorization (tenant, owner, admin) with JWT
- Modeled PostgreSQL schema and booking/search workflows; Dockerized API, frontend, and database for reproducible deployments

Web Server | *C++, HTTP Protocol, Socket Programming, Systems Programming* — Jul. 2025 – Sep. 2025

- Built a high-performance HTTP/1.1 web server from scratch in C++ handling concurrent connections
- Implemented core HTTP features: request parsing, response generation, routing, and static file serving
- Utilized I/O multiplexing techniques for efficient connection handling
- Developed comprehensive test suite to validate protocol compliance and edge cases

Docker Infrastructure | *Docker, Docker Compose, System Administration, Infrastructure* — April. 2024 – Jun. 2025

- Orchestrated multi-container Docker environment with separate services (web server, database, caching)
- Configured Docker Compose for seamless service coordination and inter-container networking
- Implemented persistent data management with volumes and automatic service restart policies
- Built scalable infrastructure with proper environment configuration and security best practices

Additional

Technical Skills: Python, C, C++, JavaScript, TypeScript, HTML/CSS, React, Next.js, Node.js, TailwindCSS, Supabase, Git, Linux, Docker, GitHub Actions

Languages: Arabic (Native), English (Proficient), French (Intermediate)

Activities:

- Participated in EliteSec CTF 2025, NullHat Morocco in partnership with HackerOne
- Organizer at NASA Space Apps Ben Guerir, the world's largest annual global hackathon, in collaboration with OPEN MINDS and 1337 Coding School at UM6P
- Tech lead and board member at Innovation Nexus club, building e-ticketing and mini-game platforms; delivered presentations on AI and technology's role in hospitality. Club link