

Ahmed Ghlimi

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Profile

Software engineering student at **1337 School** (starting 2024) with strong problem-solving skills, passionate about backend systems, real-time applications, and secure web platforms. Curious, hands-on, and driven to deliver practical software solutions. Available for internships starting September 2025.

Education

1337 Coding School (42 Network), Benguerir, Morocco

2024 – Present

Peer-to-peer software engineering program focusing on full-stack development, system programming, algorithms, and collaborative projects.

Skills

- **Programming:** C, C++, JavaScript (ES6+), TypeScript, Python
- **Frontend:** React, Tailwind CSS, HTML5, CSS3
- **Backend:** Node.js (Express, Fastify), Django
- **Databases & ORM:** PostgreSQL, MySQL, MariaDB, SQLite, MongoDB; Django ORM, Sequelize, Prisma
- **DevOps & Infrastructure:** Docker, Linux, Networking, CI/CD (GitHub Actions)
- **Security:** JWT, OAuth 2.0, 2FA, Web Security (XSS/SQLi prevention, HTTPS)
- **Other:** REST APIs, WebSockets, Git, Agile teamwork

Projects

Real-Time Multiplayer Web Game (Pong)

- Built a real-time multiplayer Pong game using **React.js**, **Node.js (Fastify)**, and **WebSockets**.
- Implemented full user management with JWT authentication, OAuth 2.0 (Google), 2FA, and email password reset.
- Developed matchmaking system for online multiplayer and AI opponent for XO mode.
- Integrated PostgreSQL database for storing user profiles, scores, and match history using **Sequelize**.
- Provided real-time logging of game events and user activity for analytics dashboards.
- Ensured secure REST APIs and proper input validation to prevent common vulnerabilities.

HTTP Server in C++98

- Implemented an HTTP/1.1 server supporting multiple simultaneous clients with non-blocking I/O.
- Handled GET and POST requests, static file serving, CGI execution, and session management.
- Built request parsing, response generation, and error handling from scratch.

Modular Infrastructure with Docker

- Designed modular infrastructure using **Docker Compose** with NGINX, MariaDB, and WordPress.
- Automated builds, managed environment secrets, and configured Redis caching for optimized performance.
- Ensured easy deployment and scalability of multi-service applications.

Minishell (C Project)

- Developed a Unix-like shell supporting execution of commands, pipes, and redirections.
- Implemented process management, input/output handling, and environment variable support.
- Designed the shell to be robust and handle multiple consecutive commands.

Django Platforms

- Built web platforms for room reservation and student integration using **Django**, **JavaScript**, and **PostgreSQL**.
- Implemented authentication, real-time chat, post management, gamification features, and notifications.
- Integrated secure REST APIs and optimized database queries for fast performance.

Languages

Arabic – Native

English – Working proficiency

Additional Information

Hands-on experience with real-time applications, secure APIs, and containerized infrastructure. Strong understanding of web security, backend logic, and collaborative software development. Passionate about continuous learning, problem solving, and delivering practical software solutions.