YAHYA ABAD

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EDUCATION

1337 School (42 Network) – Tetouan, Morocco   **Oct 2022 - Present**

- RNCP7 Certified Program in Software Engineering (Master's Level) (In Progress)

  Expected Completion: [2026]
  Focus : Database architecture and data

- Completed Common Core studies

  Focus : Operating Systems, Algorithms, Graphics, Low-Level Programming,
  Networking, Object-Oriented Programming (OOP), and Web Development.

PROJECTS

Inception (Devops)   **Aug - Sep 2023**

- Created and managed Docker containers for NGINX, WordPress, and MariaDB, ensuring service isolation and efficient resource utilization.

Chat IRC Server   **Dec 2023 - Jan 2024**

- Built an IRC server in C++98 with core features like authentication and messaging.
- Supported multiple clients using non-blocking I/O for efficient performance (I/O multiplexing).
- Followed strict C++98 standards with clean, maintainable code.

Websocket Server   **Nov 2024 - Dec 2024**

- Built a WebSocket server using Event-Driven Architecture for scalability and responsiveness.
- Managed I/O operations with POLL, implementing efficient I/O multiplexing.
- Delivered a lightweight, high-performance server with clean, modular design.

RealTime Pong Platform   **Apr 2024 - Sep 2024**

- Developed a real-time multiplayer Pong platform with user authentication, 2FA, and live chat.
- Implemented tournament systems, player profiles, leaderboards, and real-time WebSocket gameplay.
- Utilized a modern tech stack: Django, PostgreSQL, Redis, Docker, and NGINX for a secure, scalable deployment.
- Designed a component-based SPA frontend with custom routing and WebSocket state management.
- Followed best practices in authentication, HTTPS, and SQL/XSS protection for robust security.

WORK EXPERIENCE

Self-Employed - Python Developer   **Feb 2024 - Sep 2024**

- Developed a Python-based application for genetic analysis, including SNP analysis and protein interaction mapping.
- Designed a user-friendly interface for researchers to explore complex genomic data.

SKILLS

- **Skills :** C/C++, Python, Javascript, Django, WebSocket, Rest APIs, Docker, Docker-Compose, Nginx, Linux/Unix, Multithreading, OAuth 2.0, JWT, PostgreSQL, OOP, Git
- **Design patterns :** Event Driven Architecture, Observer, Singleton, Factory