

ILYASS CHAHBIA *Software Engineer*

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PROFESSIONAL EXPERIENCE

Freelance Full Stack Developer | Pharmacie Ezouinni 02/2026 – Present

- **Directed** the digital transformation of a local pharmacy by deploying a custom SaaS inventory platform, managing over **5,000+ unique SKUs**.
- **Engineered** a high-efficiency ETL pipeline using CSV parsing to migrate legacy records, reducing manual data entry time by **95%** (approx. 10 hours/week saved).
- **Integrated** Row Level Security (RLS) on PostgreSQL to strictly enforce access control, ensuring **zero unauthorized data breaches** while maintaining sub-100ms query latency for public searches.

EDUCATION

Software Engineering & Web Architecture 10/2023 – 02/2026
1337 Coding School (UM6P) Morocco

- Methodology: Peer-learning environment requiring extreme autonomy and collaboration.
- Focus: Advanced Algorithms, Web Development, Unix System Administration.

KEY PROJECTS

Ft_Transcendence : Real-Time Fullstack Platform (Match with Arcane Stack)
Stack: NestJS (Node/TS), PostgreSQL, React logic, Docker

- **Developed** a real-time SPA with sub-50ms latency, leveraging optimized **WebSockets** to support multiple concurrent game sessions.
- **Constructed** a normalized database schema to track user metrics and match history, ensuring **99.9% data consistency** across sessions.
- **Implemented** robust security protocols including **OAuth2** and Two-Factor Authentication (**2FA**) to safeguard user accounts against unauthorized access.

Inception : Virtualized Infrastructure & Service Orchestration
Stack: Docker, Linux, MariaDB, NGINX

- **Deployed** a containerized infrastructure featuring isolated NGINX, WordPress, and MariaDB services to enhance modularity and fault tolerance.
- **Configured** persistent storage volumes and bridge networks, guaranteeing **100% service uptime** during container restarts or updates.

Ft_irc : High-Performance TCP Server (System Internals)
Stack: C++98, Sockets, Non-blocking i/o

- **Developed** a lightweight TCP server capable of handling **100+ simultaneous client connections** without blocking, utilizing low-level I/O multiplexing.
- **Optimized** system resource allocation manually in C++, achieving **zero memory leaks** during 24-hour stress testing cycles.

SKILLS

Web :
Next.js, React.js (UI Architecture), Node.js (NestJS API), FastAPI.

Databases :
PostgreSQL, MariaDB, MongoDB, Redis.

Cloud & Infra :
Container Orchestration (Docker), CI/CD Pipelines, NGINX Configuration, Linux Administration.

Languages :
Python, C, C++, TypeScript, JavaScript, SQL

LANGUAGES

French (Fluent/B2+), **English** (Technical/C1), **Arabic** (Native)