

# NABIL BAGHOUGH

## Software Engineer

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### 📁 Experience

#### Full-Stack Developer Intern, *Ark-x Talent Factory*

10/2025 – 12/2025

Oujda

- Engineering scalable full-stack web solutions using the MERN stack (MongoDB, ExpressJS, ReactJS, NodeJS), delivering robust front-end interfaces and efficient back-end architecture.
- Implementing secure authentication protocols (JWT/OAuth) and high-performance RESTful APIs, integrating real-time WebSocket capabilities to enhance user engagement.
- Optimizing deployment workflows by containerizing microservices with Docker and NGINX, and establishing rigorous version control standards via Git.
- Operating within an Agile/Scrum environment to drive project milestones, conducting code reviews, CI/CD integration, and performance tuning to ensure production-grade quality.

### 🎓 Education

#### Full Stack MERN, *JobInTech Academy*

#### Software Engineering, *1337 Coding School (42 Network)*

#### Bachelor's Degree in Mathematical and Computer Sciences, *Multidisciplinary Faculty of Taza*

### 🧠 Technical Skills

#### Programming Languages

C, C++, Python, JavaScript, Java

#### Frontend Development

ReactJS, HTML, CSS, TypeScript

#### Backend Development

Django REST Framework, NodeJS, ExpressJS, NextJS

#### DevOps & Tools

Docker, NGINX, Git, WebSockets, JWT, OAuth, PostgreSQL, Redis

### 📁 Projects

#### Transcendence

- Developed the full REST API for authentication, user profiles, matches, leaderboards, and notifications using Django REST Framework.
- Integrated JWT authentication, permissions, and secure session management.
- Used PostgreSQL for data persistence and containerized the backend using Docker for consistent deployment.

#### Inception

- Containerized NGINX, WordPress, MariaDB, and Redis with isolated networks and persistent volumes.
- Implemented caching layers to improve WordPress performance and page load times.
- Hardened configuration by applying security policies (permissions, SSL setup, environment isolation).
- Optimized the internal networking to reduce service latency and improve scalability.

## IRC Server

- Implemented a lightweight IRC-compatible server focusing on connection handling and message routing.
- Built the server core in C++ using non-blocking sockets and epoll for efficient handling of multiple concurrent clients.
- Designed the basic communication loop (accepting connections, reading/writing messages, and forwarding them).
- Added error handling, socket cleanup, and connection lifecycle management to ensure server stability and reliability.

## Soft Skills

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### Problem-Solving

Leverage analytical thinking to debug complex system issues and optimize code performance in production environments.

### Collaboration

Collaborate within Agile teams to execute development sprints, conduct peer code reviews, and deliver features on schedule.

### Adaptability

Rapidly acquire and integrate new frameworks to meet shifting project requirements and strict delivery timelines.

### Languages

- **Arabic:** Native
- **English:** Intermediate (B1)
- **French:** Intermediate (B1)