# Mustapha Annouaoui

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## SUMMARY

Junior Software Developer with a strong foundation in backend development, specializing in building scalable and secure applications using NestJS, Kafka, and PostgreSQL. Experienced in real-time systems, microservices, and containerized infrastructure. Proficient in Rust, C++, and TypeScript, with a solid understanding of system-level programming and networking. Passionate about continuous learning and solving real-world problems through technology.

## EXPERIENCE

**ORA TECHNOLOGIES** | Junior Software Developer
Dec 2023 – Present | Casablanca, Morocco

- Designed and implemented secure, high-performance RESTful APIs and server-side logic using NestJS and PostgreSQL.
- Developed and maintained backend architecture for a scalable payment application, incorporating Kafka for messaging.
- Built and optimized the backend for the administrative panel, improving management efficiency.

## PROJECTS

**FT_TRANSCENDENCE** | Multiplayer Ping Pong Game

- Developed a real-time multiplayer web game with chat and notifications, using NestJS, Socket.IO, and Docker.
- Led backend development: built core APIs, JWT-based authentication, real-time sockets, and CI/CD with GitHub Actions.

**WEBSERV** | Custom HTTP Server in C++

- Engineered a full-featured HTTP/1.1 server from scratch in C++.
- Designed non-blocking I/O with multiplexing to handle concurrent client connections.

**INCEPTION** | System Administration with Docker

- Orchestrated containerized services using Docker Compose, including WordPress, Nginx, MariaDB, and Redis.
- Focused on network configuration, container security, and service automation.

## EDUCATION

**1337 CODING SCHOOL**
Computer Science
Jan 2021 – Jan 2025 | Ben Guerir, Morocco

**BACCALAUREATE IN MATHEMATICS**
Suleiman Al-Roudani High School
2018 – 2020 | Taroudant, Morocco

## SKILLS

**PROGRAMMING**
2+ years:
Rust • C/C++
1+ years:
Python • JavaScript/TypeScript

**TECHNOLOGIES & TOOLS**
Git/GitHub • Linux • PostgreSQL
NestJS • Kafka • Node.js
Docker • Networking • UNIX
Microservices • Algorithms •
Optimization

## LANGUAGES

Arabic: Native
English: Business-level

## LINKS

GitHub: **TN19N**
LinkedIn: **mustapha-annouaoui**
CodinGame: **TN19N**