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SUMMARY

Software engineer with expertise in backend development, Python, TypeScript, and C++. Skilled in frameworks like Django and NestJS. Passionate about building scalable, secure, and efficient applications. Experienced in microservices, RESTful APIs, and containerized deployments using Docker.

EDUCATION

Software Engineering: 1337 Coding School 2021 - 2024

- Learned advanced problem-solving through peer-based challenges and collaboration.

Systems and Computer Networks: BTS Al Khawarizmi 2017 - 2019

- Advanced training in Linux, network design, and CCNA 200-301 fundamentals.

EXPERIENCE

Backend Developer Intern: Sofrecom Morocco Feb 2023 - Sep 2023

- Created RESTful APIs with Django, optimizing performance via refined queries.
- Integrated with an AI/ML model for generating predictions, enhancing application capabilities.

PROJECTS

Transcendence: Online Ping-Pong Game and Chat *(TypeScript, NestJS, Database Design, Docker)*

- Built real-time ping-pong game using WebSockets for instant user interaction.
- Integrated secure chat features with NestJS backend for seamless communication.

Inception: Docker/Microservices Architecture *(Docker, Nginx)*

- Engineered robust microservices architecture with Docker to ensure application scalability.
- Leveraged Nginx load balancing for efficient traffic routing and distribution.

Containers: C++ Library Implementation *(C++, Templates, Data Structures)*

- Recreated STL containers, including vector and map, using C++ templates.
- Implemented Red-Black Tree structures for enhanced data handling and efficiency.

WebServ: HTTP Server in C++ *(C++, Linux Networking Syscalls)*

- Developed HTTP server with C++ sockets for reliable client-server communication.
- Utilized Linux syscalls to manage connections and process incoming requests.

Listed projects and more available at: github.com/jchakir

TECHNICAL SKILLS

Languages: C/C++, Python, TypeScript

Tools: Git, Docker, Linux, Bash

Frameworks: Django, NestJS

Skills: RESTful APIs, Networking, Bash Scripting, Linux Administration

LANGUAGES

Arabic (Native)

English (Intermediate)

French (Intermediate)