

Jaouad Chakir

Software Engineer

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About me

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**, with experience in **microservices**, RESTful APIs, and containerized deployments using Docker.

Technical skills

Programming Languages

- C/C++
- Python
- TypeScript

Frameworks

- Express.js
- NestJS

Tools

- Git
- Docker
- Linux
- Bash

Core Skills

- RESTful APIs
- Networking
- Bash Scripting
- Linux Administration

Languages



Experience

Software Engineer, AI Solutions @ Marwa Retail

Aug 2025 — Present

-  Architected a scalable SaaS platform utilizing **Express.js** and **FastAPI** to manage inventory data structures.
-  Engineered algorithms for smart allocation, automated restocking, and stock transfers, optimizing supply chain logistics.
-  Containerized services with **Docker** for consistent deployments across development and production environments.

Backend Developer Intern @ Sofrecom Morocco

Feb 2024 — Sep 2024

-  Created **RESTful APIs** with Django, optimizing performance via refined queries.
-  Integrated with an AI/ML model for generating predictions, enhancing application capabilities.
-  Collaborated within an **Agile** team using Git for version control and code reviews.

Projects

Transcendence: Online Ping-Pong Game and Chat

TypeScript, NestJS, Docker

-  Built a **real-time ping-pong game** using WebSockets for instant user interaction.
-  Integrated secure chat features with a NestJS backend for seamless communication.
-  Implemented **JWT authentication** and two-factor login to protect user sessions and matchmaking data.

Inception: Docker/Microservices Architecture

Docker, Nginx

-  Engineered a robust **microservices architecture** with Docker to ensure application scalability.
-  Leveraged Nginx load balancing for efficient traffic routing and distribution.
-  Provisioned isolated **MariaDB** and **WordPress** services, each in its own container with persistent volumes.

MLP-from-scratch: Multi-Layer Perceptron from Scratch

Python, NumPy

-  Implemented a **neural network** from scratch for classification tasks.
-  Tuned parameters for better performance and efficiency.
-  Coded **forward and backward propagation** and gradient descent using only NumPy, without ML frameworks.

More projects available at github.com/jchakir

Education

2021

2025

1337 Coding School

Software Engineering

-  A peer-to-peer, project-based curriculum with no formal instructors, covering C/C++ systems programming, algorithms, web development, and full-stack projects delivered under strict deadlines and code-quality standards.
-  Learned advanced problem-solving through peer-based challenges and collaboration.

2017

2019

BTS Al Khawarizmi

Systems and Computer Networks

-  Two-year technical degree focused on network administration, Linux system deployment, and infrastructure security, combining coursework with hands-on lab exercises.
-  Advanced training in Linux, network design, and CCNA 200-301 fundamentals.