

Tarik Amehri

Software Engineer – Full Stack Developer

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Full-stack developer specializing in React/Next.js frontend and Django REST Framework with SQLite backend. Experienced in low level Unix programming and DevOps, combining deep system-level knowledge with modern web development to build interactive web applications with robust backend systems.

EDUCATION

42 The Network – 1337 Coding School, Khouribga

2023 – 2025

Computer Science:

- Gained deep experience in C programming, UNIX systems, and object-oriented development in C++.
- Explored network programming, full-stack web development, and DevOps infrastructure.
- Final Project: Built a full-stack web application using Next.js, TypeScript, Tailwind CSS, Node.js, Fastify, SQLite...

University Sultan Moulay Slimane, Polydisciplinary Faculty of Khouribga

2020 – 2023

Licence in Materials Physics.

PROFESSIONAL EXPERIENCE

OCP BNI-IDIR Unit, Khouribga

Aug 2023

Intern:

- Analyzed the operation of industrial phosphate dryer ovens within a large-scale production unit.
- Studied system behavior developing analytical skills applicable to performance optimization and process automation.

TECHNICAL EXPERTISE

- Programming Languages: C, C++, JavaScript, TypeScript, python, bash.
- Web Development: HTML, CSS, Tailwind CSS, React.js, Next.js, Node.js, Django, RestFramework, SQLite...
- DevOps & Infrastructure: Docker, Docker Compose, Github Actions, Nginx, Redis...
- Other: Network Programming, Object-Oriented Programming (C++), Unit Testing...
- Tools: Git, Github, Figma, Adobe Photoshop...
- Soft Skills: Problem Solving, Teamwork, Communication, Adaptability...

PROJECTS

Django RESTful Backend:

- Built a modular REST API using Django and Django REST Framework, implementing models, serializers, and class-based views for full CRUD operations.
- Designed and managed the database layer using SQLite with schema-driven models and migrations.
- Implemented authentication and user management, including account creation, login, permissions, and secure access control.
- Wrote unit tests using Django's native testing framework to validate endpoints, database interactions, and authentication flows.
- Set up CI/CD pipelines with GitHub Actions to automate testing, build steps, and deployment workflows.
- Ensured clean, maintainable code structure following RESTful best practices and modular app organization.
- Stack: Django, Django REST Framework, Python, SQLite, GitHub Actions, Pytest/Django Test Framework.

Full Stack gaming application:

- Led a team to build a Full-stack gaming web application where users can play live ping pong matches, join tournaments, chat, and manage profiles...
- Developed a high-performance WebSocket-based game server with an invitation-based matchmaking system and a tournament system.
- Designed and built the entire user interface that ensured smooth real-time communication between the frontend and backend systems.
- Stack: Next.js, TypeScript, Tailwind CSS, Node.js, Fastify, SQLite, Nginx, Docker.

HTTP web server with c++98:

- Led a team in designing and implementing a custom HTTP web server from scratch in C++98, inspired by Nginx.
- Composed a single-threaded, non-blocking I/O architecture to efficiently handle multiple requests and fully comply with HTTP/1.1 standards.

Containerized WordPress Stack:

- Designed and deployed a complete multi-service environment using Docker and Docker Compose.
- Containerized and configured WordPress, Nginx, MariaDB, FTP, Redis, and Adminer, ensuring secure networking, isolation, and data persistence.

Bash based shell in c:

- Built a functional UNIX shell that replicates core shell features including command execution, process management, and I/O redirection.

LANGUAGES

English (Fluent), French (Fluent), Arabic (Native).