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SUMMARY

Software Engineering student at 1337 Coding School (42 Network) with a focus on backend development and DevOps. Seeking opportunities to apply skills in building scalable APIs, containerized systems, and modern web applications.

EDUCATION

1337 Coding school - 42 Network

Software Engineering

Ben Guerir, MA

October 2022 – Present

PROJECTS

ServerSide Pong | *Python, Django, JavaScript, ThreeJs, PostgreSQL, Docker, HTML/CSS*

- Built a multiplayer 3D Pong game with real-time gameplay using Django REST Framework and ThreeJs.
- Implemented real-time synchronization and WebSocket-based communication using Django Channels, enabling smooth multiplayer experiences and game invitations.
- Leveraged Redis as a high-performance message broker and Daphne for ASGI handling, ensuring efficient WebSocket communication.
- Utilized Docker Compose to containerize and deploy the frontend, backend, and database as separate containers for isolated and scalable environments.

Inception | *Docker, Nginx, WordPress, MariaDB*

- Built a secure, containerized web application stack using Docker Compose, integrating NGINX, WordPress, and MariaDB in isolated containers.
- Configured NGINX with TLS for secure HTTPS connections and optimized performance.
- Set up Docker networking and volumes to support secure inter-service communication and persistent data storage.
- Demonstrated expertise in modern DevOps practices, enhancing scalability and maintainability of web infrastructure.

Webserv | *C++*

- Designed and implemented a high-performance HTTP web server with a non-blocking architecture, ensuring seamless client interaction and eliminating request bottlenecks.
- Streamlined compatibility with popular web browsers by adhering to NGINX HTTP 1.1 standards, delivering a consistent user experience across platforms.
- Supported critical HTTP methods (GET, POST, DELETE) and integrated CGI script execution to enable dynamic content processing and server-side functionality.
- Developed a flexible server infrastructure capable of serving static websites, managing file uploads, and generating standards-compliant HTTP error responses.

Job Board API | *Flask, RESTful API, PostgreSQL*

- Designed a modular Flask architecture using Blueprints and the App Factory pattern.
- Implemented JWT authentication with role-based access for Employers and Candidates.
- Designed and managed relational schemas with SQLAlchemy and Flask-Migrate to support job postings and applications.
- Developed endpoints for job creation, listing, and applications, with proper validation and pagination.

TECHNICAL SKILLS

Backend: Python, Django, Django REST Framework, C, C++

Frontend: JavaScript, HTML/CSS, ThreeJS

Database: PostgreSQL, MariaDB

DevOps/Infrastructure: Docker, Nginx, Git, Bash

Currently Learning: Flask, React, NodeJs, NextJs