Aboubakr Boukdidi

Backend Developer

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EDUCATION

Computer Science, *UM6P-1337 Coding School*   10/2023 – present

- Hands-on training through real-world projects in system programming, graphics, AI, and low-level development.

Khouribga, Morocco

DEUG of science in chemistry, *Université Abdelmalek Essaâdi*   09/2020 – 08/2023

- Studied Organic Chemistry, Analytical Methods, and Lab Techniques with a focus on scientific analysis and research.

Tetouan, Morocco

PROJECTS

Webserver

- Engineered an HTTP server from scratch in C++98 with comprehensive request parsing and response generation.
- Added robust support for serving static files as well as executing CGI scripts for dynamic content.
- Utilized non-blocking sockets and efficient I/O strategies to maximize throughput and scalability.

BookLibrary

- Developed a Docker-containerized REST API that delivers full CRUD functionality for bookstore resources.
- Integrated a relational SQL database to ensure reliable, persistent storage of books and users.
- Applied JSON Web Token authentication to secure all endpoints and protect user data.

Inception

- Orchestrated a multi-service environment featuring NGINX, WordPress, MariaDB, Redis, cAdvisor, Adminer, FTP and a static website using Docker Compose.
- Authored optimized Dockerfiles with minimal image layers to reduce build times and runtime overhead.
- Automated deployment workflows to guarantee consistent, reproducible setups across development and production.

Minishell

- Built a Bash-like Unix shell that supports complex command parsing with pipes and I/O redirection.
- Executed robust signal handling for interactive control, including graceful responses to SIGINT and SIGQUIT.
- Managed process creation and synchronization using fork-exec patterns and detailed error handling.

Transcendance

- Developed a full-stack Ping Pong web application, handling both frontend and backend features.
- Implemented user management, authentication, and Two-Factor Authentication (OTP 2FA) to ensure secure login, signup, and account protection.
- Set up a DevOps pipeline with Docker and Nginx, enabling smooth deployment and scalable infrastructure.

SKILLS

Programming Languages
C, C++, Python, Shell, JavaScript, HTML, CSS

Frameworks & Libraries
Node.js, React, Tailwind CSS

Tools
Docker, Git, VirtualBox

Languages
Arabic, French, English

Database
MongoDB, MySQL