Asaad Naji

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Summary

Self-taught and highly motivated developer with a strong foundation from 1337 Coding School, Khouribga. Skilled in low-level programming languages like C and C++, and proficient in modern web technologies including HTML, CSS, **JavaScript ES6**, **TypeScript**, **React.js**, **Next.js**, **Node.js**, **Django**, and Python. Experienced with **Docker**, **Tailwind CSS**, **Git** && **GitHub**, and familiar with **Agile methodologies**. Quick learner with a responsible mindset.

Education

1337 Coding School   Late 2023 - Present

Khouribga, Morocco   Software Engineer / Full-Stack WebDev

Projects

Dockerized Web Services

Designed and deployed a Docker-based system using multiple containers (NGINX, WordPress, MariaDB, Redis cache) while ensuring security, scalability, and efficient service management through Docker Compose.

Custom HTTP Server

Built a lightweight HTTP server in C++ from scratch, handling HTTP/1.1 requests, CGI execution, and dynamic routing. Implemented advanced features like chunked transfer encoding, persistent connections, and custom error handling while adhering to RFC standards.

PingPong Mania

Developed a secure, responsive web application with user management, authentication (JWT, 2FA), and a dynamic dashboard using Next.js, Tailwind CSS, Django, Django Channels, PostgreSQL, and Redis cache. Ensured real-time communication and enhanced security through advanced authentication methods.

Advanced Shell

Created a custom Unix shell in C, supporting advanced features including command chaining (`&&`, `||`), sub-shell execution with parentheses, signal handling, environment variables, and I/O redirection.

Real-Time Chat Application

Built a full-stack chat application using React.js, Node.js, Express.js, MongoDB, and Tailwind CSS. Implemented JWT authentication for secure access, real-time messaging, and used Framer Motion for engaging UI animations.

AI-Powered Tic-Tac-Toe

Developed a Tic-Tac-Toe game with an AI opponent using the Monte Carlo Tree Search (MCTS) algorithm. Implemented efficient decision-making, random simulations, and intelligent move evaluation for adaptive and competitive gameplay.

Skills

Programming Languages

C/C++, Python, Typescript, Javascript

Frontend Frameworks / Libraries

Next.js, React.js, Tailwind CSS

Backend Frameworks / Libraries

Django, Node.js, Express.js, Flask

Databases

MySQL, PostgreSQL

Containerization

Docker