Anas Ajaanan

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Summary

Experienced **software engineer** with a strong foundation in **computer science**. Known for exceptional problem-solving skills and a commitment to innovation. Proven leadership in driving projects from concept to completion. Eager to contribute strategic insights and technical expertise in challenging environments. Passionate about artificial intelligence and full stack engineering, continuously seeking to integrate cutting-edge technologies into practical applications.

Skills

- **Programming Proficiency**: Exceptional skills in **C** and **C++**, with a strong emphasis on **Object-Oriented Programming**, **data structures**, and **algorithms**. Avid user and enthusiast of low-level programming languages, demonstrating a deep understanding of system-level development and optimization techniques.
- **Web Development** Technologies: Proficient in **HTML**, **CSS**, **JavaScript**, and **Bootstrap** for front-end development. Capable of creating responsive and user-friendly web interfaces. Experienced in **backend development** using **Python** with the **Django** and **Flask** frameworks, as well as **Node.js** with **Express.js**, adept at building scalable and efficient web applications. Additionally, skilled in web scraping using Python, extracting and processing data from web sources.
- **Database Management**: Well-versed in managing and integrating various database systems, including **MariaDB**, **MongoDB**, **PostgreSQL**, **SQLite**.
- **DevOps and Deployment**: Skilled in using **Docker** for containerization, facilitating consistent development, testing, and deployment environments.
- **Others**: Git, Django, Socket Programming, Networking, Concurrency, Multithreading, OS Fundamentals.

Projects

WebServer - (Nginx2.0):   12/2023 - 03/2024

Developed an innovative, high-performance Nginx-inspired web server, focusing on event-driven architecture and HTTP/1.1 compliance. This project showcased:

- **Event-Driven Architecture**: Excelled in **advanced event-driven processing**, achieving unmatched **efficiency and scalability.**
- Achieved strict **HTTP/1.1 compliance** in Nginx 2.0, ensuring robust support for key methods (GET, HEAD, POST, DELETE) for broad compatibility and a reliable web-serving foundation.
- **Cross-platform I/O multiplexing** ensuring peak performance across environments.
- **Dynamic CGI Support**: Integrated cutting-edge **CGI** capabilities for dynamic content, significantly enhancing web interactivity and Engagement.
- **Configurable Logging System**: Implemented a sophisticated **logging framework**, enabling precise monitoring and optimization of server operations, ensuring peak performance.

Inception: 02/2024 - 04/2024

Orchestrated a cutting-edge Docker-based web infrastructure, setting a new benchmark in web service delivery. This project emphasized:

- **Container Orchestration**: Seamlessly dockerized and orchestrated essential services, utilizing **Alpine Linux** as a base image for a lightweight, yet potent infrastructure.
- **High-Efficiency Web Serving**: Deployed Nginx as a reverse proxy and integrated WordPress with **PHP-FPM** for fast, secure content delivery.
- **Database & Caching Solutions**: Utilized **MariaDB** and **Redis** to improve database reliability and site performance.
- **Integrated Versatile Services**: Added a managed **FTP Server** and Adminer for efficient content and database management.

FT_Transcendence: 04/2024 - 06/2024

Developed an interactive gaming **platform** based on the classic Pong game, featuring real-time multiplayer capabilities and built with **Django**, **Bootstrap**, and **PostgreSQL**. Key highlights include:

- **Real-Time Gameplay**: Enabled dynamic multiplayer interactions, enhancing user engagement.
- **Robust Authentication**: Implemented a secure authentication system to protect user data.
- **User History**: Integrated detailed tracking of user activity for personalized experiences.

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Eco Trip: 10/2023

Developed "Eco Trip", an award-winning **AI-powered platform** for sustainable travel, during a **hackathon** focused on climate change. This project optimizes travel experiences to minimize environmental impact. Highlights include:
- **AI-Powered Itineraries**: Curated travel plans that prioritize eco-friendly transportation and accommodations.
- **Local Eco-Initiative Support**: Integrated tools to support local conservation efforts, enhancing each trip's sustainability.
- **Carbon Footprint Tracking**: Tools for users to monitor and reduce their environmental impact.

Achievements

- **First Place at InnovateX Hackathon, Ministry of Interior, UAE:**   Link

Led a team to victory by developing an enhanced digital service platform for the Ministry of Interior, focusing on accessibility for people of determination and senior citizens. Our project integrated gamification and advanced AI technologies into the MOI UAE app, improving user engagement and service delivery.

- **Global Sustainability Hackathon Winner**, **COP28 UAE**:   Link

Developed "Eco Trip," an **AI tool** for planning eco-friendly travel adventures, significantly minimizing carbon footprints and promoting sustainable tourism.

- **Second Place in the 1 Billion Challenge**:   Link

Achieved second place by expertly applying multiprocessing and multithreading techniques in C to optimize and efficiently process a dataset of 1 billion rows, showcasing superior problem-solving and code optimization skills.

- **Hacktoberfest Contributor**:   Link

Engaged in Hacktoberfest 2023, significantly contributing to various open-source projects. Enhanced coding and collaboration skills, interacting with a global developer community. Achieved recognition for advancing software quality and functionality.

Education

42 Abu Dhabi   *United Arabe Emirates, Abu Dhabi*   **02/2023 - Present**
- Diploma in Software Engineering, Computer Science.
- Currently Pursuing Mastery for RNCP Certification.

Certifications

- **CS50: Harvard University Online:**

  An introduction to the intellectual enterprises of computer science and the art of programming.   Link
- **Problem Solving Certificate**, **HackerRank**:

  Demonstrated advanced problem-solving skills in challenging programming domains.   Link