Daniel T. Afolayan

tioluwa.dev@gmail.com

Summary

Backend Engineer with over 1 year of experience specializing in helping businesses improve efficiency through the development of high-performance, data-driven backend systems and web-based software solutions, using Python, Django, Django Rest Framework, and JavaScript.

Links

LinkedIn | GitHub | Portfolio

Skills

Python, Django, Django Rest Framework, MongoDB, PostgreSQL, RESTful API development, API integration, Object-Oriented Architecture, AsyncIO, HTML, CSS, JavaScript and TailwindCSS,

Experience

DOWELL RESEARCH UK LTD.

Backend Engineer | 05/2023 – Present

- Developed Python libraries for company APIs which helped improve API integration speed by 20% and enable easy implementation in Python-based projects.
- Wrote RESTful API that extracts, validates and returns useful information from URL provided using web scraping technology, helping the company generate 3% more revenue by API monetization and alleviating the need to use paid external services for such operations in internal products.
- Developed Python library used to generate QR codes for images with human faces only, using the company's API for QR code generation and OpenCV-Python for face detection.
- Developed RESTful backend for campaign and advertisement platform. I reduced API latency by 45% by utilizing asynchronous code and background threads in sending multiple campaign emails and SMS.
- Selected and implemented best possible database schema for use with NoSQL database per project assigned.
- Implemented robust credit deduction, authentication and authorization systems which helped ensure data integrity, improve data security and reduce security vulnerabilities in API backends.
- Utilized an Object-Oriented architecture in code base to ensure modularity, code reusability and scalability.
- Created and maintained documentation for libraries and APIs developed which aided easy understanding by Frontend and Mobile engineers, reducing integration time by 6%.

Key Projects

- **Samantha Campaigns** – is a campaign and advertisement platform that empowers businesses to efficiently create, run, and analyze campaign performance, offering a robust and user-friendly campaign management system. I played a pivotal role in developing the backend logic of the product. My responsibilities included architecting the campaign creation process, scheduling, audience management, and report generation, in addition to integrating the backend with the database. I also created and maintained documentation for the API for easy integrating by Mobile developers.

- **Dowell Website Crawler** – is a data extraction tool that is useful for fetching vital information from websites. This API empowers users to extract critical details, including website names, logos, social media links categorized by platform, website social profiles, addresses, specific page URLs, phone numbers, and more. A unique feature of this service is the ability to specify the depth level for web crawling, allowing users to tailor the scope of data extraction. This service significantly simplifies the process of gathering website data, making it a valuable asset for diverse applications. I took a lead role in the development of the service

utilizing multithreading, sessions and reasonable request rate throttling to enable fast data extraction while avoiding being blocked by visited websites when scraping at deeper levels.

SIMPLIBY TECHNOLOGIES
Volunteer Software Developer | 03/2023 - Present
- Worked closely with UI/UX designer to convert Figma prototypes for company's landing page into web pages using HTML, CSS and JavaScript, leading to a 50% increase in publicity and improved product marketing.
- Developed real-time chat API integrated in frontend to facilitate communication between buyers and sellers on the platform hence increasing overall sales by 20%.
- Created and maintained documentation for chat API, helping developers integrate the API in frontend applications easily.
- Brainstormed ideas with Project Lead and liaised with other developers to identify and implement improvements to be made to product before launch.

Education

Federal University of Petroleum Resources, Effurun, Nigeria.
B. Eng, Petroleum Engineering | 01/2025

Languages

English, Yoruba.