Divine Chukwu
Python Backend Developer

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Profile

As a Software Engineer and passionate learner, I am constantly seeking to expand my knowledge and skills in the field. I talk more about the need for clean codes and best practices, not forgetting the need for best security implementations. I am always looking for new challenges and opportunities to grow. Currently, I am interested in expanding my knowledge and I am excited to see what the future holds in this ever-evolving field

Experience

FULL STACK (BACKEND) DEVELOPER | REISPAR TECHNOLOGIES | NOV 2023 – FEB 2024

Implemented using REST APIs (Django/DRF), a system which links mentors to mentees in big tech related fields.

- Started by implementing the user authentication using JWT tokens, set up models for profile creation endpoints, both mentees and mentees alike.
- Moved on to setting up the admin dashboard, implemented permissions including setting RBAC (resource-based access control) and RBAC (Role Based Access Control) as restricting, and authorization is very essential in any application.
- Went on to integrating the google calendar API with our backend using packages like "google-calendar API" in which we request access to the users' calendars to facilitate session booking between mentors and mentees and slotting these events alongside a google meet link in their calendars while also keeping reference in the database. The number of available hours and booked sessions are also being tracked.
- Worked on chatting system, using WebSocket where the users can request to send messages to when it's approved, chatting begins between them.
- Also, I worked with integrating Firebase cloud messaging, particularly using 'fcm-django' for push notifications for all device types (web, IOS and android) and set up notifications/alerts via SMS and email.

BACKEND DEVELOPER | HNG | SEP 2023 – OCT 2023

I specialized in building robust REST APIs with Django, leveraging its powerful framework to create efficient and scalable web services.

- Developed a Video Recording REST API that seamlessly integrates with a Chrome extension UI. When initiating screen recording from the frontend, the API efficiently handles the transmission of video data in chunks to the server. Upon receipt, the video chunks are

temporarily stored and concatenated upon the completion of the recording session. The consolidated video is then securely stored in AWS cloud storage. Concurrently, transcription of the video content is initiated in the background utilizing AWS services and an asynchronous processing system, leveraging Celery. Redis was employed within the system for purposes such as caching frequently accessed data, managing session states, and serving as a message broker for background job processing, thereby enhancing the scalability and responsiveness of the application. This ensures that a standard transcript of the video is generated alongside the video itself. The entire application, including the deployment on Heroku, was streamlined for optimal performance.

- Collaborated in building the backend (REST API) for an assessment application which involves signing up by different type of users (assessment creators/teachers, students and admin) creating multiple choice questions assessments, leaving assessments in drafts, editing later, allocating correct answers for automatic marking after the assessments are being answered. An admin dashboard where assessment analytics are shown, number of students, pass to fail ratio and grading of the students with our calculated cut off marks.
- Built a simple REST API, which acts as a recorder with basic CRUD functionalities, where users can record their details in a system, retrieve and edit their details, delete their details.

BACKEND DEVELOPER | VARSCON | SEP 2022 – AUG 2023
- Implemented a REST API using Flask that allowed for efficient data exchange between the web application and the backend database, deployed using Postgres dB and render.

Entrepreneurial Experience

Co-founder at ORBIT (Y-queue?)

As a student in the university, we often encountered long queues trying to buy foods at our favorite restaurants, so I thought about a solution which was to build an app with which the students and myself could order foods from the comfort of our homes and get it delivered without having to stand on long tiring queues. The app is now available on app/play store. Asides coming up with the idea i also worked on this;

- **Backend Development:** Spearheaded the entire backend development for the app, building a fast and secure REST API using Django Rest Framework, leveraging technologies such as WebSocket for messaging/chats, FCM for push notifications, Paystack for the payment system, and various libraries. Implemented key security measures like JWT, session management, and caching to ensure robustness and efficiency.
- **Leadership & Strategic Planning:** Provided team leadership by overseeing technical development and coordinating tasks to achieve project goals. Contributed to strategic planning by defining technical roadmaps and optimizing resource utilization for effective implementation.
- **Problem Solving:** Actively engaged in problem-solving, troubleshooting technical hurdles, and devising innovative solutions to ensure the seamless functioning of the app despite developmental challenges.

Portfolio Projects

- **Online Pharmacy E-commerce Website:**
  Live Link: ePharma
  Description:
  ePharma is an online pharmacy e-commerce platform developed using Django. This project aims to provide users with a seamless and efficient way to purchase medications and health-related products online. It includes features such as user authentication, product search and filtering, a shopping cart, and integration with Stripe for secure payments. Additionally, users can upload their prescriptions for specific medications that require one.
  Key Features:
    - **User Authentication:** Secure user registration, login, and password reset functionality.
    - **Product Management:** Allows users to browse, search, and filter a variety of medications and health products by categories.
    - **Shopping Cart:** Users can add, remove, and update quantities of products in their cart.
    - **Stripe Integration:** Secure payment processing using Stripe.
    - **Prescription Upload:** Users can upload prescriptions for medications that require one
    - **Admin Dashboard:** Admins can manage products, view orders, and handle user queries.
  Technical Stack:
    - **Backend:** Django
    - **Frontend:** HTML, CSS, JavaScript
    - **Database:** PostgreSQL
    - **Payment Gateway:** Stripe.

Education

BACHELORS IN COMPUTER AND ELECTRONIC ENGINEERING | SEP 2017- JULY 2023 | UNIVERSITY OF NIGERIA, NSUKKA.

Links

Github Twitter | LinkedIn | Portfolio | Blog

Skills & Abilities

- Strong Python knowledge
- Django
- Flask
- JavaScript
- PostgreSQL
- Message queues (RabbitMQ, Redis)
- Git and Github
- CI/CD

- Good team Collaborator
- Fast and efficient learner
- Effective time management
- Strong written and verbal communication
- Critical thinker
- Problem Solver

- Writing clear documentation with OAS3 and Postman
- Bootstrap

Activities and Interests

- Coding up something every single day is my number one activity and interest
- Reading
- I have always had an interest in writing and giving back some knowledge to the tech world, so I now have writing as an activity. I have one article in my blog now.

Language

- English
- French