

# Uchenna J. Onyenso

## Backend Programmer

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### SKILLS

#### Tools and Technologies

Python, JavaScript, Django, HTML, CSS, SQL, Git, RabbitMQ, PostgreSQL, Docker, GraphQL, Terraform, FastAPI

#### Industry Knowledge

REST API Design, Authentication Strategies, Technical Writing, API Documentation, Microservices, Agile Methodology, Data Structures, Algorithm Analysis, Infrastructure as Code, Websockets

#### Soft Skills

Oral and Written Communication, Team Building, Lifelong Learning, Persistent, Leadership and Management

### PROFESSIONAL EXPERIENCE

#### Senior Back-end Developer

Ringfree [🔗](#)

Aug 2024 – Present

Charlotte, North Carolina, United States

- Architected and implemented a dynamic call flow builder feature, enabling customers to design custom VoIP routing logic through a visual interface.
- Implemented a comprehensive activity logging system to track and audit user actions across the platform, improving security compliance and providing customers with detailed operational visibility.
- Contributed to frontend development using Vue.js and Vuetify 3 when needed, ensuring cohesive full-stack feature delivery.

#### Senior Back-end Developer

Assist Factory [🔗](#)

Oct 2024 – Aug 2025

Sheridan, Wyoming, United States

I led the backend development of Assist Factory, a platform designed to connect clients with virtual assistants (VAs) and manage task-based service delivery. My responsibilities spanned across backend architecture, API development, third-party integrations, and system security. Key contributions:

- Implemented a multi-gateway payment infrastructure with support for Flutterwave, Paystack and Stripe, using the Strategy Pattern architecture to encapsulate gateway-specific logic and maintain a unified transaction lifecycle.
- Built role-based access system with polymorphic profiles for the 3 different user types (Client, VA, and Admin) with a fine-grained permission logic.
- Implemented instant chat messaging using websockets for seamless in-app communication between clients and VAs.
- Implemented virtual meeting scheduling and calendar integration with Google Meet and Google Calendar. Designed OAuth2 authentication, including encrypted token storage using symmetric encryption and seamless refresh logic for protected resource access.
- Developed a complete invoice and payment flow, including secure webhook handling, API-based transaction verification, and audit logging.
- Implemented a referral rewards system, automatically validating and completing referrals based on payment activity and user engagement.

#### Back-end Programmer

Whot Studios [🔗](#)

Nov 2024 – May 2025 | Lagos, Nigeria

I led the backend development of SquareMetre [🔗](#), our property management platform that enabled users to invest in fractional real estate.

#### Back-end Developer

Dukka Ltd. [🔗](#)

Aug 2020 – Nov 2024 | Lagos, Nigeria

#### Notable Projects

**Dvault API** [🔗](#) : Led development of a digital wallet API service, enabling creation of virtual accounts and real-time fund transfers. Integrated KYC verification, transaction logs, and reconciliation tools.

- Generated over **N25 million** in revenue till date.
- Reduced wallet integration time by **40%** for partner apps via robust documentation and modular architecture.

**Dukka App** [🔗](#) : Engineered core payment and wallet APIs for a POS and bookkeeping platform used by 50,000+ merchants.

- Integrated partner bank APIs for virtual account creation and payment routing.
- Designed async transaction processing pipeline using RabbitMQ, reducing latency by **30%**.

**Dash App** [🔗](#) : a mobile marketplace where users can buy from various vendors. They can also pay directly on the app from their virtual account which they create on the app. I implemented the microservice responsible for realtime notifications in this app. I also implemented the APIs responsible for wallets and virtual accounts creation.

1) **Flux**  , our flagship product that enables businesses to digitally manage product transfers, secure pickups, and supply chains. Using digital receipts, AI automation, and real-time tracking, it optimizes procurement, logistics, and inventory management across various industries. I implemented the ATC issuing and endorsement feature. This allows organizations to transfer ownership of goods and other organizations to secure these goods. This process involves approvals, verifications etc. I also implemented the RBAC (Role-Based Access Control) feature that gives organizations the ability to create and assign granular permissions to employees. This enables a systematic flow of goods from one authority to another and reduces manual paperwork by 80%.

## EDUCATION

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### B.Eng. Electrical and Electronics Engineering

*Michael Okpara University of Agriculture Umudike* 

2016 – 2021 | Abia State, Nigeria

### Senior Secondary Certificate of Education

*Government College Umuahia*

2010 – 2016 | Abia State, Nigeria

## PROJECTS

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### SwitchVibes

A back-end API service that enables smooth music playlist migration between different music streaming services. Simply provide the link of a playlist from your favorite source platform (e.g., Spotify), and SwitchVibes will automatically transfer all the songs to a new playlist in your specified destination platform. Eliminate manual playlist recreation and let SwitchVibes do the heavy lifting for you.

## TECHNICAL ARTICLES

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### Web APIs: The Foundation of Modern Technology

*Hashnode*

A lot about APIs, including history, benefits, types, economy and security of APIs.

Jun 2023

### Getting Started with Full-stack Web Development

*Hashnode*

An introduction to full-stack development. Explains front-end, back-end, libraries, frameworks, APIs and more.

Apr 2022

## PROFESSIONAL DEVELOPMENT

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### Computer Science for Web Programming

*Harvard X*

Apr 2020 – Jul 2021

## VOLUNTEERING

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### Google Developer Group on Campus - Michael Okpara University of Agriculture Umudike

*Web Instructor*

GDGoC is a voluntary club that has taken responsibility to help students grow as developers and empower them to impact their communities with technology. The club is spread out over hundreds of universities and higher institutions across the globe.

- Taught 100+ students fundamentals of web development and helped organize 3 campus-wide hackathons.

2021 – 2022 | Abia State, Nigeria

## FIND ME ONLINE

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### LinkedIn

<https://linkedin.com/in/uche-onyenso> 

### GitHub

<https://github.com/Onyenso> 

### Twitter

<https://twitter.com/yensouchenna> 

### Blog

<https://alphadevvv.hashnode.dev/>