

CYNTHIA OWOLABI

Senior Backend Engineer

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TECHNICAL SKILLS

Backend	Node.js, NestJS, Django, FastAPI, Laravel, Spring, REST APIs, GraphQL, Kafka
Databases	PostgreSQL, MySQL, MS SQL Server, Redis, Cassandra, MongoDB, ArangoDB
Languages	Python, TypeScript, JavaScript, Java, C#, Go, PHP, Kotlin, Shell
Cloud/DevOps	AWS, Azure, GCP, Docker, Kubernetes, Terraform, Jenkins
AI	LLM APIs, LangChain, LangGraph, RAG, Pinecone vector database
Frontend	React, Next.js, Angular, Tailwind CSS, Redux

PROFESSIONAL EXPERIENCE

Duplo | Senior Full Stack Engineer

Jul 2025 - Present

Nigeria | Hybrid | Full-time

- Architect and develop internal administration systems using Next.js, TypeScript, NestJS and PostgreSQL, consolidating business and transaction data with boundary normalization and partial-availability handling.
- Implement liquidity transfers, transaction-status and balance queries, and Wema Bank payouts, with partner-specific payment-provider and currency provisioning.
- Implement Xero accounting integrations for expenses, bills, invoices, payments, contacts and taxes, including synchronization jobs and endpoints; build partner registries and feature flags for partner-specific capabilities.
- Implement role-based access and maker-checker approvals for sensitive administrative actions.
- Deliver multi-country compliance workflows with country-specific validation, resubmission of rejected fields and business activation controls.
- Build external-service mocks for accounting and payment integrations.

Bitso | Senior Software Engineer

Apr 2023 - Jul 2025

Mexico | Remote | Contract

- Shipped high-performance code for high-growth markets serving hundreds of thousands of users using Java, PHP and Laravel
- Applied semantic embeddings, vector databases and Retrieval-Augmented Generation to improve transaction-data retrieval and support risk-analysis workflows.
- Developed and integrated an AI customer-support assistant using LLM APIs and LangGraph to handle queries through natural-language understanding and generation.
- Designed LLM-agent workflows for transaction risk analysis, using AI models to identify suspicious patterns and flag high-risk transactions.

Microsoft | Senior Software Engineer

Dec 2021 - Feb 2023

Nigeria | Hybrid | Full-time

- Reduced API scan completion time from 15 hours to 5 hours through automated processing.
- Automated runtime and documentation issue/bug logging using Azure DevOps to manage background tasks and workflows, ensuring scalability and efficient operation, using Azure Cloud, Azure Service Bus, Azure Durable Orchestration Functions, Azure Worker Service and Application Insights.
- Built a web application with distributed-system architecture to improve performance, scalability and fault tolerance using C#, Python, TypeScript and Node.js.

- Implement CI & CD pipelines using Azure

Indeed | Senior Software Engineer

Jun 2020 - Nov 2022

United States | Remote | Contract

- Managed and upgraded an artifact-distribution system using Java, Go, Cassandra, MySQL, MongoDB, Consul, ZooKeeper, Docker and Kubernetes.
- Migrated services from on-premise infrastructure to AWS using Python and upgraded services to support Kubernetes.
- Provided technical platform maintenance and support.

Interswitch Group | Software Engineer

May 2018 - Nov 2020

Nigeria | Hybrid | Full-time

- Decoupled and refactored infrastructure from an Enterprise Service Bus to microservices, increasing uptime from 88% to 99.7% and raising sigma level from 3σ to 5σ .
- Developed an API gateway providing analytics, enterprise-grade security and API management, reducing security breaches by 23% and increasing customer satisfaction by 21%.
- Developed frontend and backend systems for an urban mass-transit solution supporting automated fare collection, ticketing and real-time fleet and vehicle tracking.
- Demoed a web version within six months, contributing to the company's first contract with the Lagos Metropolitan Area Transport Authority (LAMATA).

Zone | Software Engineer

Jan 2017 - Mar 2018

Nigeria | On-site | Full-time

- Architected, planned and delivered software solutions and enhanced product implementations for the Deja-Vu Platform.
- Performed code reviews, unit and integration testing, and produced technical documentation and system specifications.

ElectroHyve Research Institute of Technology | Embedded Systems Engineer

Jun 2015 - Nov 2015

Nigeria | On-site | Internship

- Developed and tested hardware components and electronic circuits, including integration testing with external computer systems.

EDUCATION

The Federal University of Technology, Akure | **First Class Honours, CGPA 4.53/5**

Electrical & Electronics Engineering (BE)

ACHIEVEMENTS

- Gold Medal, American Mathematics Competition (AMC), 2011.
- Bronze Medal, 7th International Junior Science Olympiad (IJSO), 2010.
- Represented Nigeria at the 52nd International Mathematical Olympiad (IMO), 2011.