

Olaoluwa Ajibade Olunowo

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Software engineer and systems designer with 5+ years of experience building scalable backend systems and financial infrastructure. I specialize in payment architecture, transaction processing, reconciliation systems, and third-party payment integrations, with a strong focus on reliability, consistency, auditability, and failure recovery.

I've designed and implemented systems that handle real-world payment edge cases, including stuck transactions, webhook failures, duplicate charges, and asynchronous settlement flows. My engineering approach is deeply rooted in systems thinking, designing resilient services with idempotent workflows, clear transaction state management, and long-term operational maintainability.

Skills

Languages & Frameworks: Javascript | TypeScript | GoLang | Python | Java |

C++ React | Nextjs | Node | Express | Nest.js

Databases: MongoDB | MySQL | PSQL | DynamoDB | Prisma

Other: Sequelize | Docker | Jest | AWS | SQS | ECS | Beanstalk | RDS | S3 | Pub/Sub | CICD

Experience

Backend Developer 12/2024 - Present

[LunixPos](#) - Brooklyn, New York, USA (remote)

- Led backend architecture and development of an e-commerce platform handling live transactions and payment workflows, replacing Shopify and reducing operational costs.
- Designed a PostgreSQL schema optimized for transactional integrity, supporting 2,000+ active users and high-frequency order/payment operations.
- Integrated and managed Stripe payment flows, including payment state tracking, webhook handling, and reconciliation of transaction statuses.
- Built a referral and credit distribution system using Stripe, enabling automated credit allocation to users based on successful referrals, directly increasing business signups and user acquisition.
- Designed the referral system with idempotent credit issuance and duplicate-event protection, ensuring financial correctness across retries and webhook events.
- Implemented transaction handling and safeguards against duplicate or failed payment events.
- Managed database migrations and transactional consistency using Prisma ORM.
- Built integrations with third-party systems (e.g., tax platforms), ensuring data consistency across external services.

Backend Engineer (Contract)

[Accessa](#) Gym Management & Billing Platform (In Progress) | 2026

- Building a backend system for a gym platform that tracks member activity through PostGIS-powered location-based check-ins and manages subscription access.
- Integrated Payment systems for subscriptions, renewals, and bill payments.
- Designed transaction workflows for subscription lifecycle management, including payment confirmation, reconciliation, renewal handling, and access control.
- Implemented webhook handling, payment verification, and idempotent processing flows to prevent duplicate transactions and maintain consistency between Monnify API events and internal system state.
- Architecting backend services for real-time member validation and payment-based access control.

NodeJS Backend Developer 02/2023 - 10/2025

Cloudenly - Lagos, Nigeria (remote)

- Architected and developed large-scale backend microservice systems using Node.js, Redis cache, Messaging queues, and Sequelize.
- Deployed and maintained new microservice servers on AWS EC2 instances, leveraging AWS RDS and MongoDB for optimal performance.
- Implemented caching mechanisms for service endpoints, significantly optimizing API response times.
- Implemented Notification and Email service using WebSocket (socket.io) and AWS SES.
- Collaborating cross-functionally with product teams to implement product requirements seamlessly.
- Managed database transactions and migrations using Sequelize ORM, MongoDB, and Dynamo

Full-Stack Developer 09/2022 - 02/2023

Carrot Credit - Lagos, Nigeria

- Spearheaded development efforts for a fintech loan application, adding new features and integrating with third-party API (like Binance and Trove).
- Wrote a comprehensive unit testing strategy using Jest on the backend.
- Improved CI/CD Git action workflows, optimizing performance for React and Node.js applications.

Backend developer, IT Support 02/2022 - 08/2022

Longbridge Technologies - Lagos, Nigeria

- Provided ongoing support and maintenance for multiple core banking applications.
- Enhanced application functionality and performance using Java (Spring Boot) and Play framework. Improved codebase documentation using Swaggerhub, Postman, and Readme.md files.
- Proficiently integrating and leveraging SOAP APIs within web services
- Worked closely with cross-functional teams to identify and resolve technical challenges, leading to enhancements in application performance and an improved user experience.

NodeJS Developer 07/2021 - 01/2022

Lanepact Apprenticeship - Lagos, Nigeria

- Designed applications, cutting across various fields such as education and finance, using different technology stacks.
- Using Node.js, Passport, JWT, and other technologies to ensure secure authentication and authorization of users, data, and sensitive information on the applications.
- Developed comprehensive API documentation utilizing tools such as Swagger and Postman, enhancing system transparency and ease of use for developers and stakeholders.

Lead Backend Developer 02/2021 - 07/2021

Zuri team - Remote Internship

- Conceptualized and deployed the HelperNg website, a platform dedicated to connecting NGOs and volunteers for streamlined access, verification, and meetups.
- Led the backend team of four developers in developing user database management systems, models, and schemas, as well as validation of payloads to the client side, resulting in a robust and scalable backend infrastructure.
- Utilized Node.js, MongoDB, AWS, GitAction, and other technologies for development.

Open Source Contribution

- Mozilla (Outreachy)
- Aviyel

Education

BSc in Computing, Computer Science,
Lagos State University, Nigeria

HND (Higher National Diploma), Mechanical Engineering,
Lagos State Polytechnic, Nigeria

Awards & Certifications

2022 | Fullstack Engineer | Udacity Nanodegree Programme