

Akalonu Chukwuduzie Blaise

Backend Engineer | Fintech & Payment Systems | Scalable APIs & SDKs

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EXPERIENCE

Eulav Grow — Software Engineer (Remote, US)

Mar 2025 – August 2025

-Designed and developed a metered billing system using Stripe's usage-based API to track AI-chat sessions and generate pay-as-you-go invoices for thousands of requests per day.

-Built and Maintained Typescript SDKs and APIs for Shopify, WooCommerce and BigCommerce integrations, contributing to a 15% increase in client sales.

-Introduced Redis-backed async queues to offload insensitive tasks (media processing, email delivery), improving onboarding flow performance by 20%.

-Implemented structured API monitoring and token usage logging with Grafana, improved incident detection significantly reducing downtime by 10%.

-Wrote comprehensive E2E tests covering auth and payment flows with Cypress, and configured GitHub Actions CI/CD pipelines for automated deployment on GCP.

First Software Systems — Backend Engineer (Lagos, Nigeria)

Jan 2024 – Present

-Integrated Paystack payment gateway including webhook systems for real-time order payment confirmation, enabling reliable transaction processing for a food ordering platform handling thousands of orders daily.

-Built multi-tenant MySQL and MongoDB schemas powering logistics, rental and food ordering platforms, handling concurrent requests across thousands of daily active users.

-Developed WebSocket-powered real-time APIs for live chat functionality, improving application responsiveness by 25% under high concurrent load.

-Published and maintained TypeScript SDKs consumed by React and React Native applications, reducing integration time for frontend teams.

LANGUAGES

Python, JavaScript, TypeScript

FRAMEWORKS

NestJS, FastAPI, Express, Node.js, React.js, Next.js

DATABASES

PostgreSQL, MongoDB, MySQL, Redis

TOOLS

Docker, AWS, GCP, Github Actions, Jest, Cypress, Grafana, Prometheus, Websockets

SKILLS

Backend Engineering, SDK Development, Payment APIs, Webhooks, Unit Testing, E2E Testing.

-Led backend architecture and delivery of 6 custom software solutions across fintech, logistics, e-commerce, and shortlet rental platforms serving up to 10,000 daily active users, with multi-tenant MySQL and MongoDB schemas deployed on AWS EC2.

RadicalX — AI Engineering Intern (Remote, US)

Dec 2023 – Mar 2024

-Participated in a 12 weeks intensive bootcamp in Python Programming language for AI and backend Engineering.

-Built GPT-powered chatbot APIs for healthcare triage, improving patient interactions using python.

-Developed AI PDF summarizer SDK with teammates, which helped improve study time.

-Secured 2nd place in AI hackathon among global interns with a malaria triage project for African homes.

Res00lve (Talent Management)— Junior Software Developer

February 2022 - December 2022

-Collaborated with team members to build the backend of the talent hunt platform for the startup which powered the first 100 users.

-Performed integrations on the frontend with Redux state management tool leading to a consistent application state.

-Conducted unit tests under the supervision of the CTO to ensure minimal bugs on the application during deployment.

PROJECTS

[Mono Parser - Open Banking Credit Decisioning API](#)

- Developed a B2B credit decisioning API integrating with Mono's Open Banking platform to automate loan underwriting for Nigerian fintechs, analyzing income stability, cash flow patterns, debt capacity and credit history.

- Architected a microservices system with NestJS (orchestration) and FastAPI (scoring engine), aggregating 6+ data sources from Mono API into 3 clean endpoints for ease of integration.

AWARDS

1st Place – Hack4Futo Hackathon (2023)

Leadership Award – Convener Hack4Futo The Third Hackathon (2024)

-Designed a rule-based lending decision engine with knockout rules, affordability checks, and manual review triggers to enforce compliance and auditable loan approvals.

- Implemented asynchronous job queues (BullMQ) and secure webhook systems with retries and signature verification to orchestrate the full pipeline: account linking - data collection - scoring - loan decisioning.

[Pera Wallet Service - Fintech Wallet and Disbursement API](#)

-Built a secure wallet service supporting fund, transfer, withdraw and transaction history with dispute references

-Implemented ACID compliant transactions with row-level locking to prevent race conditions on concurrent rewrites and idempotency keys to guarantee safe retries on disbursements without duplicate processing

-Deployed on Railway with MySQL, using Knex.js for granular control over transactions instead of abstracted ORMs.

EDUCATION

Federal University Of Technology Owerri

2019 - 2024

B.Eng Mechanical Engineering, GPA: 4.0