John Ayomide Abe

BACKEND-FOCUSED FULL-STACK SOFTWARE ENGINEER

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PROFESSIONAL PROFILE

Backend-focused Full-Stack Software Engineer with 5 years of backend experience building and supporting web and mobile products across education, enterprise operations, commerce, property technology and SaaS. Experienced in designing APIs and data models, implementing authentication and payment workflows, protecting transactional data, and diagnosing deployment and production issues. Combines hands-on engineering with technical leadership and client-facing delivery, using AI-assisted development tools such as Claude Code within a plan, review and test workflow.

CORE TECHNICAL SKILLS

Backend	Node.js, TypeScript, JavaScript, NestJS, Express.js, REST APIs, API architecture, webhooks
Databases & Security	PostgreSQL, Supabase, Prisma, MongoDB, SQL, database transactions, Row-Level Security, JWT, RBAC, audit trails
Frontend & Mobile	React, Next.js, React Native, Expo, Vite, Tailwind CSS, React Navigation, RTK Query
Integrations	Paystack, Resend, Cloudinary, LiveKit, Expo Push Notifications, Terminal Africa, Supabase Edge Functions
Infrastructure & Delivery	Docker, Linux, VPS, Nginx, Traefik, PM2, TLS/SSL, Git/GitHub, GitHub Actions, EAS Build, Vercel, Netlify
Engineering Practices	System design, data integrity, concurrency control, secure financial workflows, integration testing, production debugging, AI-assisted delivery

PROFESSIONAL EXPERIENCE

Full-Stack Developer
Jul 2026 – Present

Routel Solutions

- Own end-to-end engineering delivery across multiple institutional software projects, including an e-library, school management software and a comprehensive tertiary-institution ERP; translate stakeholder requirements into scoped technical work and deliverable workflows.
- Take primary ownership of the design and delivery of a cloud-hosted ERP covering Bursary, General Ledger, Accounts Payable, Procurement, Budget, Treasury, Payroll, Cash Advance/Imprest, Receipts and Audit.
- Implemented financial integrity controls including balanced transactional posting, integer-kobo money handling, reversal-based corrections, concurrency-safe state transitions, consolidated trial balances and auditability.
- Built procurement and payment controls including multi-stage approvals, partial-delivery goods-received notes, hard-block three-way invoice matching, budget checks and separation of duties.
- Established a substantial automated test suite: 1,317 passing API integration tests, 130 web unit tests and Playwright smoke coverage across 11 role types; provisioned and hardened VPS infrastructure for client user-acceptance testing.

Co-founder & CTO | Backend / Full-Stack Engineer
2024 – Present

Bit4orge Solutions Ltd

- Lead and contribute to client-facing software delivery across education, e-commerce, property technology, construction SaaS and event operations.
- Own backend architecture and delivery across API design, PostgreSQL data models, authentication and authorisation, payment integrations, business rules, data integrity, deployment and production support.
- Convert business requirements into technical specifications and acceptance criteria; coordinate contributors and stakeholders, and use AI coding agents with human-led planning, review, testing and release decisions.

Backend & Mobile Developer
2022 – 2024

Bongalo

- Contributed to website and mobile application development, focusing on backend services, API functionality, integrations, debugging and feature delivery.

Software Developer / Data Analyst
2020 – 2021

SpruceEx

- Contributed to software development and data analysis, supporting digital product implementation and related user-interface and product tasks.

SELECTED ENGINEERING PROJECTS

Schooled Afrika & SchooledStream | EdTech

React · Node.js · PostgreSQL · LiveKit

Built and maintained backend workflows for a tutoring and learning platform with student, parent, teacher and administrator roles. Delivered session scheduling and attendance, wallet-based session billing and payouts, role-aware access, notifications and a self-hosted LiveKit classroom. Migrated 700 legacy student records covering 345 unique email addresses; also built the AI-assisted study and teacher tools.

EROJA | Marketplace

React Native · Supabase · PostgreSQL · Paystack

Owned backend business logic for customer, vendor and agent workflows. Implemented Paystack checkout and webhooks, transactional wallet and payout operations, parent-to-vendor sub-orders, per-vendor delivery confirmation, configurable fees, push notifications and administration workflows. Supported mobile release management, including iOS releases through version 1.0.3.

BOQ Express | Construction SaaS

React · TypeScript · Supabase

Built a construction estimation product with Nigerian-specific wall, foundation/slab, finishing and roofing calculations, saved projects and auto-save, labour costing, six Word report generators and corresponding PDF exports. Corrected and tested a concrete volume calculation that changed the slab estimate from 4.1 to 6.25 cement bags per cubic metre.

PeakSmartFarms | Agribusiness

Next.js · Supabase

Delivered role-based farm and staff workflows, PostgreSQL/RLS data models, 12 operational data-capture forms, KPI calculations, policy acknowledgements, assessments and reporting. Resolved date-integrity issues across all 12 forms and strengthened server-side authorisation.

Rolamee | Tutoring Platform

Express · TypeScript · Prisma · PostgreSQL

Led backend delivery for a three-role tutoring platform with OTP email verification, tutor approval, assignment-driven and recurring sessions, attendance history, admin reporting and notifications. Implemented rate limiting, RBAC and password-reset workflows; supported deployment across Render and Vercel.

Vilora | Event Operations SaaS

Technical Leadership · DevOps

Provided technical leadership and delivery governance rather than primary application coding. Led review and remediation of an account-takeover vulnerability, introduced evidence-based pull-request review and revert-check testing, restored CI, and established isolated staging with Dockerised PostgreSQL, Nginx, TLS, firewall controls, backups and a fail-safe deployment script.

Urban Nova | Property Technology

Node.js · Express · Prisma · PostgreSQL

Delivered backend and infrastructure workflows for KYC onboarding, property listings, income-based matching, Paystack test-mode instalments, a savings-based price-lock workflow, support tickets and developer/admin portals. Migrated the database from CockroachDB to Neon and deployed behind Nginx and PM2.

CollabTunes | Mobile Collaboration

React Native · Expo · Supabase

Delivered location-aware mobile and backend features including notification events, account deletion across related records, moderation and blocking controls, RLS policies and an admin moderation interface. Managed the iOS release process.

EDUCATION

B.Sc. Computer Science 2026
Osun State University (UNIOSUN)

National Diploma, Computer Engineering 2018 – 2020
Federal Polytechnic, Ede

ACADEMIC PROJECT

P4-Based Network Firewall P4_16 · BMv2 · Mininet · Python

Designed and tested a data-plane firewall proof of concept with IPv4 whitelist/blacklist rules and rate-limiting logic in an emulated network environment.

REFEREES

Available on request.