EMMANUEL EBRI

BACKEND DEVELOPER

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LinkedIn | GitHub | Portfolio

PROFILE

Backend Developer with 3+ years of professional and freelance experience building production services with Node.js/Express, NestJS, and Python (FastAPI) on PostgreSQL and MongoDB. Designs RESTful APIs and database schemas, secures them with JWT, OAuth, and role-based access control, integrates payment gateways with verified, idempotent webhooks, and improves performance with Redis caching and BullMQ queues. Full stack experience with React and Next.js, and comfortable in remote, cross-functional Agile teams.

TECHNICAL SKILLS

Languages: JavaScript (ES6+), TypeScript, Python
Backend & APIs: Node.js, NestJS, Express.js, Python (FastAPI); RESTful API & GraphQL design and documentation; API contract alignment with frontend teams
Databases & ORMs: PostgreSQL, MongoDB, Mongoose; schema design & query optimization
Caching, Queues & Real-Time: Redis, BullMQ, Socket.IO, Firebase Admin & web push notifications
Auth & Security: JWT with refresh tokens, bcrypt, OAuth 2.0 (Google, Apple), role-based access control, email verification & password reset, Helmet, CORS, rate limiting, Zod validation
Payments & Banking: Paystack (one-time and instalment payments, webhooks), Anchor (NUBAN accounts, bank verification, withdrawals), KYC tiers
Observability, Media & Docs: Sentry, Pino, Winston, Swagger/OpenAPI, Multer, Cloudinary
Testing: Vitest, Jest, Supertest, mongodb-memory-server (unit & integration)
Tools & Workflow: Git, GitHub, CI/CD workflows, Render, Vercel, Agile/Scrum remote collaboration
Frontend (for API consumers): React.js, Next.js, TailwindCSS

WORK HISTORY

Full Stack Engineer | Toac Technologies · Contract, Remote **06/2025 – Present**

- Developing 30+ REST API endpoints in Node.js/Express for TOAC, a telehealth platform connecting patients with medical counsellors for online therapy, with JWT access/refresh-token authentication, email OTP verification, and role-based access control protecting 100% of private routes.
- Implementing session booking end-to-end, from availability scheduling and server-side conflict checks that prevent double-booking to in-app messaging and automated notifications, reducing booking to 3 steps.
- Designing database schemas and REST API contracts with the team, keeping API responses under 300ms and ensuring reliable integration between the frontend, backend, and database layers.
- Building role-guarded API routes and data models tailored to each of 3 user types (patients, counsellors, and admins), powering role-based dashboards across 20+ screens.
- Building the platform end-to-end, with a React 19, Vite, and TailwindCSS frontend integrated with the APIs via Axios, plus 40+ reusable, well-documented React components and validated React Hook Form forms that cut new-page build time by ~35%.

Backend Engineer | Zeta Technologies · Contract, Remote **06/2025 – 09/2025**

- Built and maintained RESTful APIs using Node.js and Express, powering core backend services for a production application.
- Designed PostgreSQL database schemas and queries, ensuring efficient, reliable data storage and retrieval across core features.
- Implemented JWT-based authentication and authorization, securing API endpoints and protecting user data across the platform.
- Integrated a third-party payment gateway to handle transaction processing, ensuring secure and reliable payment workflows.

Full Stack Engineer | Upsywave Tech Company Ltd · Remote **08/2023 – 04/2025**

- Worked as a full stack developer on 6 client web applications, building Node.js/Express REST APIs and the React.js and Next.js interfaces that consume them.
- Built and maintained 50+ RESTful API endpoints with JWT authentication, input validation, and role-based access control.

- Designed API endpoints and database models for client features, and documented API contracts so frontend and backend work could move in parallel.
- Optimized data fetching between client and server by eliminating redundant API calls, adding caching, and indexing database queries, achieving a 30% reduction in network overhead and ~40% faster API responses.

EDUCATION

Advanced Diploma, Software Engineering | Aptech · Distinction · 2026
B.Sc., Public Health Science | University of Calabar · Second Class Upper (2:1) · 2023

CERTIFICATIONS

- Backend REST API with Node.js | Udemy, 2025
- The Complete Full Stack Web Development Bootcamp | Udemy, 2025

PROJECTS

E-bringgs | Backend Developer | Node.js · Express · MongoDB · Mongoose · Redis · BullMQ · Paystack
ebringgs.com

- Worked on the backend of E-Bringgs, an ed-tech and software-services platform where students enroll in live cohort programs and businesses book fixed-price client projects, serving three client apps (student/client, teacher, and admin portals) through a 90+ endpoint REST API built with Express and Mongoose.
- Implemented Redis caching for frequently accessed data, keeping API response times under 200ms for 99% of requests and page loads under 2 seconds.
- Offloaded time-consuming tasks to BullMQ background job queues with automatic retries, keeping request handling fast and reliable as usage scales.
- Integrated Paystack for NGN one-time and instalment payments, initializing and verifying transactions server-side with idempotent webhooks, and exposing transaction history for users and admins.

Blingg | Backend Developer | Node.js · Express 5 · MongoDB · Socket.IO · Anchor · Firebase · Zod · Vitest
blinggapp.com | API docs (Swagger)

- Building the backend for Blingg's iOS and Android app (private beta), a Nigerian fintech super app that combines chat, payments, and group savings, exposing 141 REST endpoints across 18 modules, all documented in Swagger.
- Built user wallets with dedicated NUBAN account numbers for funding, user-to-user and group transfers, paginated transaction history, and receipts, integrating Anchor for bank-account verification and withdrawals to Nigerian banks through HMAC-signed webhooks.
- Powering WhatsApp-style real-time messaging with Socket.IO, including reactions, polls, starred, forwarded, and pinned messages, broadcast lists, and 24-hour statuses with privacy controls and automatic expiry, with media stored on Cloudinary.
- Locked down accounts and money movement with bcrypt hashing, JWT authentication, Helmet, CORS rules, rate limiting, and Zod request validation on every endpoint.
- Backing REST and real-time endpoints with automated integration tests using Vitest, Supertest, Socket.IO client tests, and an in-memory MongoDB, so every change is checked against a real database before it ships.

ACHIEVEMENTS & LEADERSHIP

President | National Association of Public Health Students **03/2021 – 12/2023**

- Led the national executive body, representing public health students across member institutions nationwide.

Tech Lead | Student Union Government, Aptech **02/2025 – 01/2026**

- Mentored fellow students in software development, supporting technical skill growth across the student body.