

# Emoruwa Emmanuel

Backend Engineer

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## PROFILE

Backend engineer with hands-on experience designing and shipping production-grade APIs, event-driven notification systems, and AI-integrated data pipelines. Currently interning at NextVibe, building the server-side infrastructure for one of Africa's emerging event and gamification platforms. Comfortable across the full backend lifecycle — from schema design and caching strategy to deployment and cross-team API documentation.

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## EDUCATION

University of Lagos — B.Sc. Computer Science

Expected 2027

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## EXPERIENCE

NextVibe · Backend Engineer Intern

April 2026 – October 2026

[mynextvibe.com](https://mynextvibe.com)

- Developed and maintained backend features across the Events, Gamification, and Postcards sections of the NextVibe event discovery and management platform.
- Built and integrated REST APIs consumed by frontend clients, ensuring reliability, correctness, and performance across core product features.
- Event Reminders System:** implemented a cron-based scheduling engine with branded Resend email templates and a dedicated Prisma model for reminder state tracking, enabling automated multi-step notification flows.
- Interest & Discovery Feed:** engineered a vibes tagging system allowing users to select interest categories, with a personalised event recommendation feed calculated against tag weightings.
- File Storage Pipeline:** architected MinIO-backed upload workflows hosted on Railway, resolving bucket initialisation race conditions and storage key consistency bugs.
- Collaborated with a cross-functional remote team, producing API integration guides and frontend-facing documentation for each major feature.

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## PROJECTS

dataBite — Full Stack · AI Data Storytelling Engine [github.com/Emzee-Creates/dataBite](https://github.com/Emzee-Creates/dataBite) · [data-bite.vercel.app](https://data-bite.vercel.app)

- Built a business intelligence tool that lets users upload CSV datasets and generate interactive visualisations via natural language or voice commands, powered by Gemini AI for structured reasoning and Recharts for rendering.
- Voice Interface:** architected a custom streaming pipeline using the Deepgram SDK over persistent WebSockets, bypassing unreliable browser SpeechRecognition APIs for consistent performance across privacy-focused browsers.
- Push-to-Talk System:** implemented a PTT state-guard with a React isProcessing flag to prevent hardware race conditions and ghost microphone restarts; audio streamed in 250ms chunks for near-instant transcription.
- AI Narration:** Gemini generates a Context → Insight → Action explanation for every rendered chart, read aloud via an integrated TTS engine; charts exportable as high-resolution PNGs.

Stack: Gemini AI · Deepgram WebSockets · Node.js · React · TypeScript · Recharts

aurorAI — Full Stack · 2025 Solana x AI UNILAG Hackathon [github.com/Emzee-Creates/aurorAI](https://github.com/Emzee-Creates/aurorAI) ·

[auror-ai-landingpage.vercel.app](https://auror-ai-landingpage.vercel.app)

- Integrated Helius RPC and Moralis APIs to fetch live wallet token holdings and on-chain transaction data, constructing cryptographic risk profiles based on asset exposure vectors.
- Consumed Jupiter Aggregator's price APIs to retrieve real-time token valuations, enabling dynamic ranking of yield generation opportunities against each wallet's current portfolio.
- Architected a data aggregation layer that normalises multi-source API responses into a unified risk-and-yield scoring matrix, surfacing actionable profit-maximising recommendations.
- Shipped a Telegram bot (@aurorai\_optimizer\_bot) as a simplified access interface, extending reach beyond the web client.

Stack: TypeScript · React · Node.js · Helius RPC · Moralis API · Jupiter API · Telegram Bot API

## TECHNICAL SKILLS

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**Languages:** TypeScript · JavaScript · Python · HTML · CSS

**Frameworks & Libraries:** NestJS · Node.js · Express.js · Next.js · React · Pandas · NumPy · Matplotlib

**Databases & Infrastructure:** PostgreSQL · Redis · Prisma ORM · MinIO · Docker · Aiven

**Tools:** Git · Postman · Resend · Railway

## COURSES & CERTIFICATIONS

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Web Development

System Design

Java Concurrency

Introduction to Machine Learning

*University of Lagos*

*University of Lagos*

*University of Lagos*

*Kaggle*