

Chukwuemeka Clinton Anyanwu

Fullstack Software Engineer

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PROFILE

Fullstack Developer specialising in React, TypeScript, and Next.js, with a track record of shipping production-grade applications end-to-end. Designs and builds across the full stack — custom data-processing engines, third-party API integrations, AI-powered features, transactional email systems, and CI pipelines. Comfortable with the hard parts: role-based access control, idempotent event handling, data integrity constraints, layered architecture, and secure-by-default design. Currently completing NYSC as a coding instructor (October 2026).

TECHNICAL SKILLS

Frontend: React.js, Next.js 16, TypeScript, JavaScript, Tailwind CSS v4, Framer Motion, Recharts, TanStack Query, React Router, Vite, Radix UI

Backend & APIs: Node.js, Express.js 5, Next.js Server Actions, REST API design, JWT auth, bcrypt, Zod

Databases & ORM: Supabase (PostgreSQL + Auth + RLS), PostgreSQL via Prisma 7, MySQL

AI & LLM Integration: Vercel AI SDK (@ai-sdk/google), Google Gemini (gemini-2.5-flash), streaming AI responses, AWS Generative AI (certified)

Email: React Email, Resend (transactional + broadcast)

Third-party Integrations: Paystack (checkout + HMAC webhook verification), ngrok (local webhook tunnelling)

Testing: Vitest, React Testing Library, jsdom, v8 coverage

DevOps & Security: GitHub Actions (CI/CD), Trivy vulnerability scanning, Vercel, Render, Netlify

Tools: Git, GitHub, pdfjs-dist, papaparse, Postman, ESLint, System Design

WORK EXPERIENCE

Lead Developer · Twnhall (twnhall.com) — Lagos, Nigeria

January 2026 – Present

- **Architected and built Twnhall end-to-end**, a live developer peer-testing platform where developers submit projects, define testing missions, and earn community feedback through reciprocal testing — built on Next.js 16, TypeScript, Supabase, and the Vercel AI SDK.
- **Designed and implemented a three-role access control system** (admin, developer, tester) using Supabase Auth and Next.js route groups — each role has a fully isolated layout, navigation, and server action surface; middleware enforces role boundaries on every request.
- **Built an AI-powered submission analysis feature** using the Vercel AI SDK and Google Gemini — automatically generates structured quality reports from tester feedback, surfacing patterns and actionable insights for developers without manual review.
- **Implemented a transactional and broadcast email system** using React Email and Resend — templated emails for feedback notifications sent on submission webhook events; admin broadcast sends personalised emails to the full user base from a dashboard UI.
- **Engineered a webhook-driven submission pipeline**: inbound webhook verifies authenticity, records the submission in a transaction, triggers email notification, and updates mission completion state — decoupled from the UI request cycle.
- **Shipped a guided product onboarding tour** using Onborda with custom step cards, replay controls, and per-role tour paths — reducing new-user drop-off by giving developers and testers a contextual walkthrough of the platform on first login.
- **Maintained sitemap.js and robots.js** for SEO; implemented Open Graph metadata across all pages; deployed on Vercel with branch preview deployments for every pull request.

Freelance Fullstack Developer · Self-Employed — Lagos, Nigeria

January 2025 – Present

- **Designed and shipped two production-grade fullstack applications** — a document intelligence platform (Flowchart) and a freelancer invoicing tool with Paystack payment integration — both deployed, tested, and documented.
- **Engineered a custom multi-format document parsing engine** supporting 7 source variants with source-specific extraction strategies, normalisation utilities for varied date/currency formats and OCR artifacts, and SHA-256 deduplication hashing.
- **Integrated Google Gemini (gemini-2.5-flash)** to automatically classify unstructured text into 12 categories with manual override; prompt-engineered for accuracy on domain-specific input variations.
- **Built an event-driven payment integration** with HMAC-SHA512 webhook verification, idempotent payment recording via unique DB constraint, and transactional state updates — webhook is sole source of truth for payment confirmation.

- **Applied data integrity practices throughout:** Zod validation at API boundaries, environment variables validated on boot, derived computed state, and concurrent write collision handled with retry logic.
- **Built a GitHub Actions CI pipeline** with Trivy CVE scanning (blocking on CRITICAL/HIGH), ESLint, Vitest test suite, and Next.js production build validation on every push and pull request.

Coding Instructor (NYSC) · Wizz hub Technology — Lagos, Nigeria

November 2025 – October 2026

- **Taught web development fundamentals** to students as part of NYSC community development service at Wizzyhub Technology, an ICT training and software company.
- **Designed and delivered lesson plans covering HTML, CSS, JavaScript, and introductory React;** adapted teaching approach to varying student skill levels.

Software Engineering Intern · VAS2NET Technologies Limited — Lagos, Nigeria

January 2024 – June 2024

- **Contributed to an agile cross-functional team**, collaborating with backend engineers to build and ship web features across the sprint cycle.
- **Developed user-facing web interfaces** using HTML, CSS, and JavaScript, improving UI consistency across the product.
- **Participated in code reviews, sprint planning, and technical documentation;** gained hands-on exposure to production engineering workflows.

PROJECTS

Twnhall — Developer Peer-Testing Platform — twnhall.com

- **Stack:** Next.js 16, TypeScript, Supabase (PostgreSQL + Auth + RLS), Vercel AI SDK, Google Gemini, React Email, Resend, Framer Motion, Recharts, Radix UI, Zod, Onborda.
- **A live community platform connecting developers with real-world testers:** developers submit projects, define granular test missions, and receive structured written feedback; testers browse a mission feed and submit proof-of-visit reports — reciprocity is the core mechanic.
- **Three-role system (admin / developer / tester)** with fully isolated route groups, server action surfaces, and Supabase RLS policies per role; admin dashboard includes user management, submission moderation, broadcast email, AI report generation, and platform analytics with Recharts.

Invoicing & Payment Platform — github.com/Chrisemeka/invoicing_tool

- **Stack:** Node.js, Express 5, TypeScript, PostgreSQL, Prisma 7, JWT, bcrypt, Zod, Paystack, React 18, Vite, TanStack Query, Tailwind CSS 4, React Router.
- **Multi-user billing platform:** UUID-secured public payment pages for unauthenticated clients; idempotent Paystack webhook handler with HMAC-SHA512 signature verification; derived invoice status; layered backend architecture (route → controller → service → Prisma); concurrent invoice number collision handled with up-to-5× retry.

Flowchart — Document Intelligence & Data Visualisation Platform — flowchart-gray.vercel.app/

github.com/Chrisemeka/flowchart

- **Stack:** Next.js 16, TypeScript, Supabase (PostgreSQL + Auth + RLS), Google Gemini, Recharts, TanStack Query, Tailwind CSS v4, Vitest + React Testing Library, pdfjs-dist, GitHub Actions.
- **PDF parsing engine across 7 source variants** with AI transaction categorisation, statement comparison, history archive, and interactive dashboards; full Vitest + RTL test suite integrated into CI.

REST API — Data Tracking Service — github.com/Chrisemeka/finance_tracker_api

- **Node.js/Express REST API** demonstrating end-to-end backend architecture: user authentication, structured data persistence, and clean separation between data access and business logic layers.

EDUCATION

Babcock University · Ilishan-Remo, Ogun State

July 2025

Bachelor of Science — Major in Software Engineering

ADDITIONAL

Languages: Fluent in English

Certifications: Graduate Member, Computer Professionals of Nigeria (CPN); Introduction to Generative AI with AWS

NYSC Status: In progress — expected completion October 2026