

EMMANUEL AKINROYE

Senior Full-Stack Engineer

kinemcodes@gmail.com | +234 901 967 3953 | github.com/emma66886 | linkedin.com/in/emmanuelakinroye

PROFESSIONAL SUMMARY

Senior full-stack engineer with 7+ years shipping complex production SaaS applications with TypeScript, React, and Node.js. Recent work is healthcare software for a UK care provider, covering scheduling, multi-tenant access control, and audit logging over sensitive personal data. Works directly with founders on live codebases and delivers fully remote across UK, EU, and US time zones.

CORE TECHNICAL SKILLS

Languages: TypeScript, Python, JavaScript, Node.js, Java, C#, Rust, SQL, Solidity

Frontend: React, Next.js, Redux, Context API, Tailwind CSS, WebSockets, real-time and collaborative interfaces, responsive UI

Backend & Serverless: Node.js, NestJS, Express, ASP.NET Core, REST and GraphQL APIs, serverless functions, event-driven architecture, background job processing, microservices

Databases & Data Modeling: PostgreSQL (advanced queries, indexing, partitioning, row-level security), Supabase, MongoDB (document data modeling), Redis, SQL Server, multi-tenant schema design

Platform & SaaS: Multi-tenant SaaS architecture, RBAC and permission systems, workflow and approval engines, scheduling and capacity allocation, audit logging, client-facing portals

Security & Auth: Authentication and authorization, role-based access control, row-level security, audit and compliance logging, sensitive-data handling

APIs & Integrations: Third-party API integration, OpenAPI/Swagger, webhooks, Stripe, Paystack, KYC/AML flows, merchant settlement and reconciliation

Cloud & DevOps: AWS (EC2, S3, RDS, Lambda), Docker, Docker Compose, GitHub Actions CI/CD, DigitalOcean, monitoring and structured logging

PROFESSIONAL EXPERIENCE

Chief Technology Officer & Full-Stack Engineer | Usefleet Mar 2026 - Present (Remote)

- Own technical direction and architecture, leading engineering delivery end to end across backend, product, and integration surfaces.
- Define system architecture, module boundaries, and delivery roadmap, and set code review, release, and testing standards across the codebase.
- Build and direct a small engineering team while staying hands-on in day-to-day delivery.

Principal Engineer | Kinem Labs (BuildArena) Jun 2025 - June 2026 (Remote)

- Architected and built a full production platform covering project and workspace state, build orchestration, and authenticated API surfaces.

- Built real-time multiplayer collaboration infrastructure over WebSockets, synchronising editor state, canvas state, and output across concurrent users in a shared workspace.
- Delivered a live visualisation layer that renders program structure and state relationships in real time as users type.
- Ran the full lifecycle: architecture, delivery, self-hosted Docker infrastructure (Dokploy, Traefik), GitHub Actions CI/CD, and PostHog analytics.

Senior Full-Stack Engineer | Ridgeway, Texas, United States Jan 2026 - Jun 2026 (Contract, Remote)

- Architected and built an AI-powered natural-language-to-action system translating user input into executed operations across the stack.
- Implemented a secure payment system with confidentiality guarantees, handling sensitive transaction flows safely across backend and frontend.
- Provisioned AWS EC2 infrastructure and established end-to-end CI/CD pipelines with GitHub Actions for reliable automated deployment.
- Delivered a full-stack solution that processed over \$300,000 in production transaction volume.

Senior Full-Stack Engineer | Timglobal, UK (Healthcare SaaS) Jul 2025 - Dec 2025 (Contract, Remote)

- Delivered features across a live, multi-tenant healthcare SaaS platform serving care coordinators, field staff, and providers.
- Designed and implemented staff management and scheduling services covering shift allocation, availability, and capacity across teams and roles, with workload visibility for operational leads.
- Modelled multi-tenant data isolation and role-based access control in PostgreSQL, enforcing authentication and permission boundaries over sensitive operational data.
- Built real-time messaging and notification delivery between users with low latency under sustained concurrent load.
- Implemented operational workflow automation for care task assignment, handover, and approval steps, replacing manual coordination across provider teams.
- Built audit logging and compliance-facing reporting over sensitive operational and personal data, meeting UK care-sector data-handling requirements.

Senior Full-Stack Engineer & Tech Lead | Cryptrapay Jul 2024 - Dec 2024 (Contract, Remote)

- Led architecture and delivery of a production payments and settlement platform from zero as founding engineer, owning backend, frontend, and infrastructure.
- Built a Node.js and NestJS backend supporting multi-currency wallet management, merchant onboarding, and real-time transaction reconciliation across concurrent users.
- Implemented settlement reconciliation that kept ledger state consistent across systems, reducing payment failures by 35%.
- Built React and TypeScript interfaces delivering a real-time, responsive payment experience.

Senior Backend Engineer | Allark Mar 2023 - Jun 2024 (Contract, Remote)

- Sole engineer responsible for architecture and end-to-end delivery, shipping the platform from zero to production.

- Engineered a WebSocket layer supporting 1,000+ concurrent sessions at sub-50ms latency under production load.
- Achieved 99.9% availability through circuit breaker patterns and fault tolerance across all external service integrations.
- Built a type-safe React and TypeScript frontend for complex real-time workflows, reducing runtime errors by 70%.

Full-Stack Engineer | Neatio

Jul 2022 - Jan 2023 (Contract, Remote)

- Delivered scalable API infrastructure and developer documentation that reduced third-party integration time by 60%.
- Built backend services and integrations with retry and recovery logic ensuring reliable processing across systems.

Full-Stack Engineer & Tech Lead | Blockride

Sep 2021 - Aug 2022

- Led full-stack delivery of a marketplace platform, owning frontend and backend architecture in a startup team.
- Built a React and Next.js frontend with a Node.js backend supporting high-volume marketplace transactions.
- Reduced fraudulent transactions by 90% through multi-step verification workflows and atomic transaction logic.

EARLIER EXPERIENCE

Full-Stack Engineer | Bole

Apr 2020 - Feb 2021 (Remote)

React and Node.js application with ethers.js integration for token swaps and liquidity management.

Full-Stack Developer | Remax Real Estate (MaltaHomeSearch), Malta

Jun 2019 - Mar 2020 (Remote)

React, Next.js, and Node.js property platform serving 1,000+ monthly active users across 15+ REST endpoints on PostgreSQL.

EDUCATION & CERTIFICATIONS

CS50X: Introduction to Computer Science | Harvard University (edX)

Doctor of Veterinary Medicine (DVM) | University of Ibadan, Nigeria

2017 - 2024