

Folahan O. Mosunmola

Senior Frontend Engineer | Full-Stack Engineer

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PROFESSIONAL SUMMARY

Senior Frontend and Full-Stack Engineer with 5+ years building high-performance, user-centric platforms across B2B SaaS, HealthTech, EdTech, and E-commerce. Specializes in scalable React, Next.js, and TypeScript architectures backed by Node.js and NestJS services, PostgreSQL and MongoDB data models, and containerized deployments on Amazon Web Services (AWS). Owns features end to end from system design through production release, working across distributed asynchronous teams in the United States, Europe, and Africa.

TECHNICAL SKILLS

Frontend: React, Next.js, Vue 3, Nuxt.js, Angular, TypeScript, JavaScript (ES6+), HTML5, CSS3, SCSS

Backend: Node.js, NestJS, Express.js, GraphQL (Apollo), RESTful API Design, Medusa.js, BullMQ, Microservices

Databases: PostgreSQL, MongoDB, CockroachDB, Redis

Styling and UI: Tailwind CSS, CSS-in-JS, ShadCN, Bootstrap, Design Systems, Responsive Design, Web Accessibility (WCAG)

State and Data: Zustand, Redux, React Query, Context API, TypeORM, Prisma

DevOps and Cloud: Docker, Kubernetes, GitHub Actions, CI/CD, Amazon Web Services (AWS: S3, Lambda, CloudFront), Google Cloud Platform (GCP), DigitalOcean, Vercel, Render, Firebase, Prometheus, Grafana

Security and Auth: NextAuth.js, Clerk.js, JSON Web Tokens (JWT), OAuth 2.0, bcrypt, Role-Based Access Control (RBAC), HIPAA-Compliant Protocols

Payments and APIs: Stripe, Apple Pay, Binance API, CoinGecko API, SendGrid, Mux, UploadThing

Testing and QA: Jest, Cypress, Postman, Supertest, Code Review

Leadership: Technical Roadmapping, System Design, Agile/Scrum, Mentorship, Cross-Functional Collaboration

PROFESSIONAL EXPERIENCE

Lead Frontend Engineer

Umwelth | Remote | Full-Time | Mar 2025 - Present

- Lead the architecture and scaling of a business-to-business (B2B) SaaS rewards and customer data platform serving 50+ enterprise clients, built on React, Next.js, and TypeScript.
- Designed a proprietary dividend attribution algorithm that improved reward distribution accuracy by 30%.
- Built a custom styling engine on a numeric scaling system for 3D model interfaces, replacing traditional CSS media queries and delivering consistent cross-device responsiveness.
- Shaped end-to-end user flows for an integrated e-commerce engine with real-time inventory tracking and automated post-purchase reward allocation.
- Established reusable component libraries and design system standards that reduced feature development time by 25% across engineering teams.

Founding Backend Engineer

TaskForce App | Remote | Part-Time Advisory Role | Jan 2024 - Oct 2025

- Designed a high-concurrency architecture using BullMQ and Redis to power real-time task synchronization and push notifications for thousands monthly active users.
- Engineered a secure Stripe subscription system with webhook handling, automated invoicing, and dunning workflows, reducing failed payments by 25%.
- Took the product from concept to production, scaling it to process over \$25,000 in annual subscription revenue.

Frontend Engineer

HiddenShelves | Remote | Full-Time | Aug 2023 - Dec 2024

- Built a performance-optimized Next.js storefront with multi-language routing and server-side rendered (SSR) catalogs, improving page load times by 50%.
- Architected a modular backend system on Medusa.js and Redis, improving API response times by 40%.
- Built a reusable checkout suite supporting promotional codes, gift wrapping, and dynamic shipping calculations.
- Deployed scalable e-commerce infrastructure on Amazon Web Services (S3 and CloudFront), sustaining 99.99% uptime.
- Reduced database query times by 40% through indexing, caching strategies, and query optimization across PostgreSQL and Redis.

Web Developer (Intern to Full-Time)

The Bulb Africa | Lagos, Nigeria | Full-Time, Onsite | Mar 2021 - Mar 2023

- Promoted from intern to full-time Web Developer within 6 months, supporting digital product delivery for multiple African startups.
- Built responsive, accessible business-to-consumer (B2C) and B2B interfaces with React.js, HTML5, CSS3, and JavaScript (ES6+), collaborating cross-functionally in Agile sprints.
- Translated Figma designs into pixel-perfect, cross-browser-compatible implementations for products serving tens of thousands of end users across Africa.
- Named Engineer of the Quarter for contributions to high-traffic application deployments.

PROJECTS

DepVault - Predictive Dependency Risk Engine

NestJS | Angular | MongoDB | TypeScript | Docker | Prometheus and Grafana | github.com/seunfoladeepvault

- Architected a multi-ecosystem dependency-security platform computing a predictive Trust Score across npm, PyPI, Cargo, and Go, using Monte Carlo simulation, Shannon entropy, and Analytic Hierarchy Process (AHP) weighting, with memoization and bounded iteration counts to close a denial-of-service (DoS) vector on attacker-controlled input.
- Designed a Redis-free, MongoDB-only architecture for distributed rate limiting, idempotency, and scan-stamped locking, removing an entire stateful service from the stack while remaining correct across horizontally scaled instances.
- Published a Model Context Protocol (MCP) server to the public npm registry (@deepvaultscan/mcp-server) so AI coding agents can score packages on demand, and built a pre-install security gate with shell-hook interception across six package managers (npm, pnpm, yarn, pip, cargo, go), an auditable override path, and a fail-closed offline cache for continuous integration (CI) and air-gapped environments.
- Implemented multi-tenant organization RBAC and plan tiering, Language Server Protocol (LSP) diagnostics for live in-editor trust scores, a CI/CD build gate, and a Prometheus and Grafana observability stack secured with GitHub App short-lived tokens, Zod validation, and Helmet.

Stackron - HIPAA-Compliant Healthcare Scheduling Platform (Contract Engagement)

NestJS | Node.js | PostgreSQL | JSON Web Tokens | Swagger | HealthTech

- Built a HIPAA-compliant scheduling engine with conflict detection and multi-provider availability synchronization, reducing scheduling errors by 60%.
- Developed encrypted messaging and secure file-upload protocols for sensitive patient-to-clinic communications.
- Created user verification and authentication endpoints with JSON Web Tokens (JWT), role-based access control (RBAC), and Swagger API documentation.

African Next - AITI Learning Platform

Vue 3 | Nuxt.js | Composition API | Custom CLI Tooling

- Architected and built a soft-skills learning platform for the African Institute of Technology and Innovation (AITI), a Nigeria-based training institute covering frontend, backend, full-stack, cloud, artificial intelligence (AI), and cybersecurity tracks.
- Designed persistent progress tracking and dynamic content delivery so learners resume modules exactly where they left off, even on inconsistent connections.
- Built a proprietary Nuxt.js CLI automating project scaffolding for new modules, cutting setup time by over 80%, and migrated legacy Vue 2 codebases to the Composition API, improving runtime performance by roughly 40%.

Learning System Academy - EdTech Platform

Next.js | PostgreSQL | Prisma | Clerk.js | Stripe | Mux | github.com/seunfoladeepvault

- Built a full-featured EdTech platform with a role-based access control (RBAC) dashboard for tutors and students, featuring real-time data visualization via React Table and Recharts.
- Engineered a fault-tolerant, PCI DSS-compliant Stripe payment system architected to support 100,000+ concurrent users, and integrated Mux and UploadThing for video transcoding, hosting, and secure file management.

Forex Exchange Platform

Next.js | TypeScript | Tailwind CSS | Ethers.js | Binance API | CoinGecko API | github.com/seunfoladeepvault

- Built a real-time trading platform with webhook-based market updates and live price feeds from the Binance and CoinGecko APIs, including wallet functionality via Ethers.js with bcrypt- and JWT-secured seed-phrase management.
- Created immersive 3D market-analytics visualizations with React Three Fiber and Three.js.

EDUCATION

Bachelor of Engineering (B.Eng.), Mining Engineering | 2011 - 2017

Federal University of Technology, Akure (FUTA) | Akure, Nigeria