

Gbadamosi Tolulope

FULL-STACK SOFTWARE ENGINEER — FRONTEND-FIRST

Abuja, Nigeria (Remote-capable) | toلولopegbadamosi644@gmail.com | +234 705 758 6445

Portfolio: tempest00-max.github.io/portfolio | GitHub: github.com/Tempest00-max | LinkedIn: linkedin.com/in/tolulope-gbadamosi-55790240b

PROFILE

Frontend-first full-stack engineer who builds pixel-perfect, high-performance interfaces backed by production-grade systems. Ships React 19 dashboards with TypeScript strict mode, Web Workers for main-thread isolation, and real-time data visualization — then wires them to Python/FastAPI backends with ACID-compliant PostgreSQL. Owns features from Figma concept to deployed component. Recently expanded into systems programming with Rust, building a from-scratch compression engine with SIMD acceleration.

TECHNICAL SKILLS

Frontend	React 19, Next.js, TypeScript (strict), Tailwind CSS, Vite, Web Workers, Leaflet Maps, Figma-to-Code
Backend & APIs	FastAPI, PostgreSQL, Redis, SQLAlchemy, RESTful APIs, Node.js
Languages	JavaScript (ES6+), TypeScript, Python, SQL, HTML5/CSS3, Rust
Security & Crypto	AES-256, ChaCha20, bcrypt, JWT, Client-Side Encryption, Row-Level Locking, Idempotency Patterns
Blockchain & AI	Solana, Web3.js, Helius RPC, Pinecone Vector DB, Ollama/LLMs
Infrastructure	Docker, Linux/WSL, Git/GitHub, CI/CD (Render, Vercel, GitHub Pages)
Systems	SIMD (AVX2/NEON), Cache-Conscious Design, Zero-Copy/Zero-Alloc, Cargo Workspaces

SELECTED PROJECTS

Blitz Compress — High-Performance Lossless Compression Engine

May 2026

Systems Engineer | Rust, SIMD, LZ77, FSE

- Built a from-scratch lossless compression engine in Rust with hardware-conscious algorithm design — L1-cache-sized hash tables (32KB), single-pointer collision resolution, and greedy parsing for maximum ILP
- Implemented SIMD-accelerated memory copies (AVX2/NEON) for decompression at memory bandwidth speed; zero-allocation streaming API for production hot paths
- Achieved 250.74x compression ratio on repetitive data at 1.36 GiB/s throughput — competitive with LZ4 and Zstd on small data due to minimal overhead
- 45+ tests covering hash consistency, token round-trips, FSE edge cases, SIMD copies, and full cycle verification with CRC32

Sol-Tee Bot — Solana Trading Alert System

Apr 2026 – May 2026

Full-Stack Engineer | Python, asyncio, WebSocket, Helius RPC, Telegram API

- Real-time Solana token scanner monitoring Pump.fun bonding curves via WebSocket; sends Telegram alerts when tokens approach Raydium migration
- On-chain safety filters: whale concentration analysis, dev wallet history checks, honeypot detection, and narrative scoring against trending keywords
- Milestone tracking (2x–100x) with live performance stats; SQLite persistence for token metadata and alert history

SyncOps — Async Engineering Workstation

Apr 2025 – May 2025

Frontend Engineer | React 19, TypeScript, Vite, Web Workers, Tailwind CSS

- Visual QA Workbench: Figma overlay alignment system with fine-tune drift controls for design-to-code verification — detects pixel-level misalignment in real time
- Web Worker Profiler: Main-thread isolation benchmarking 60 FPS under high-frequency array workloads (1M+ elements), preventing UI jank during heavy computation
- Timezone Orchestrator: Cross-border team availability mapper with live clock synchronization across EST, BST, WAT, and IST with overlap visualization

CENTURION — Banking Ledger Dashboard

Jan 2025 – Apr 2025

Full-Stack Engineer | React, Next.js, Python, FastAPI, PostgreSQL, Redis, Docker

- Multi-account dashboard with real-time balance cards, transaction history tables, and transfer flow with PIN authentication — responsive, dark-themed, production-polished
- Complete auth flow: registration/login/PIN screens with bcrypt hashing, JWT session management, and form validation

- ACID-compliant transaction engine with PostgreSQL row-level locking (with_for_update) and Redis idempotency keys to prevent double-spend
- Deployed on Render with Docker; handling live user signups

Auto-Tm NG — Real-Time Meteorological Dashboard

Mar 2025 – Apr 2025

Full-Stack Engineer | JavaScript, REST APIs, Leaflet Maps, GNSS

- Interactive Leaflet map dashboard syncing live GNSS station data with atmospheric configuration panels and convective moisture monitoring
- ZTD (Zenith Total Delay) calculations with station reference dropdowns and analysis execution workflows
- Live meteorological REST API integration with client-side state management for real-time data refresh without page reload

VAULT-X2 — Client-Side Encryption Interface

Feb 2025 – Mar 2025

Security Engineer | JavaScript, AES-256, ChaCha20, bcrypt

- Zero-knowledge encryption interface with drag-and-drop file handling, real-time progress indicators, and secure download flows
- AES-256 and ChaCha20 via Web Crypto API with password-derived keys — all encryption client-side; server never sees plaintext

WORK EXPERIENCE

Independent / Self-Directed

Jan 2025 – Present

Full-Stack Software Engineer — Frontend-First

- Building and deploying production-grade interfaces and systems from Nigeria, working remotely with global teams.
- Led frontend architecture for SyncOps (React 19/TypeScript), CENTURION (banking UI), and Auto-Tm NG (Leaflet mapping).
- Backend systems include ACID-compliant PostgreSQL ledgers, client-side encryption modules, Solana trading infrastructure, and a Rust compression engine with SIMD acceleration.
- All projects deployed live with Docker on Render and GitHub Pages.

EDUCATION

Federal University of Technology, Minna — B.Eng Telecommunication Engineering

2019 – 2025

ADDITIONAL

- Languages: English (fluent)
- Open source: 6+ public repositories with documented READMEs, benchmarks, and test suites
- Continuous learner: Self-directed study in database internals, cryptography, systems programming, and blockchain
- Available for remote full-time roles and contract work