

DANIEL NWACHUKWU

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PROFILE

Backend Software Engineer building secure, scalable, high-performance server-side systems. Deep experience with Node.js, Go, TypeScript, PostgreSQL, and Redis, applied to write-ahead persistence, distributed queues, HMAC-signed event delivery, and RBAC. Built Shipyard (self-hosted CI/CD engine) and Conduit (high-reliability webhook delivery engine) end to end. Africa-focused work spans NCAA (rescued a government-tier system in 24 hours) and Offline Bridge (financial inclusion for offline users). AWS Cloud Practitioner. First Class Honours, Computer Science.

EDUCATION

University of Nigeria, Nsukka Nsukka, Nigeria

Bachelor of Science, Computer Science 2021 to 2025

Grade: First Class Honours. Activities: Director of Software II (student leadership).

PROFESSIONAL EXPERIENCE

NCAA Performance Management System Lagos, Nigeria · Remote

Full-Stack Engineer (Technical Consultant) May 2025 to Feb 2026

- Rescued a stalled government-tier project by diagnosing a mission-critical system blocker and shipping a production-ready fix within 24 hours of onboarding, unblocking a multi-week regression.
- Architected an automated Excel-to-Table KPI Engine that streams real-time performance metrics into a dynamic dashboard, giving leadership millisecond-accurate visibility into employee and supervisor performance.
- Led backend infrastructure migration during the high-stakes transition from development to full production, reducing deploy risk during a government-visibility rollout.
- Built role-aware admin oversight tooling that cut manual data reconciliation and enabled real-time decision-making across the organizational hierarchy.

Ekivio (parent org of Gainsty) United States · Remote

Software Engineer Nov 2024 to Oct 2025

- Architected the Employee Portal Dashboard end to end, from frontend architecture through backend service layers, establishing the foundation for the Employer platform that followed.
- Designed and shipped an enterprise-grade Role-Based Access Control system supporting granular permissions across complex organizational hierarchies.
- Expanded scope to maintain Gainsty (sister product) concurrently, engineering automated data integration for real-time social media metrics and resolving API bottlenecks that were slowing core growth workflows.
- Maintained 99.9% uptime across both products through proactive infrastructure work and disciplined deployment cycles.

OnlyDust Paris, France · Remote Fellowship

Open Source Fellow Jun 2025 to Aug 2025

- Selected for the inaugural OnlyDust Fellowship, a manually vetted program for high-impact contributors to decentralized protocols.
- Shipped 60+ merged pull requests to core Starknet, Sui, and Stellar codebases, collaborating with international maintainers on runtime performance and transaction safety.
- Delivered secure implementations across smart contract logic, SDK state synchronization, and low-level protocol debugging; received discretionary milestone grants for consistent code integrity.

WagerDAO United States · Remote

Frontend Engineer (Contract) Feb 2024 to Jul 2025

- Delivered roughly 95% of the platform's core UI infrastructure across two engagement phases (initial build and post-relaunch integration), including the decentralized betting engine, real-time wallet management, and dynamic sports dashboards.
- Engineered Web3 integrations with Wagmi and TypeScript, bridging live smart contract state to a reactive frontend for real-time betting receipts and game tracking.
- Restructured the development workflow during the relaunch phase to reduce deployment friction and accelerate shipping of mission-critical updates.

LionX (MafiaManes) United States · Remote
Frontend Engineer (Internship) Jul 2023 to Dec 2023

- Engineered the core minting infrastructure on the Tron Network (handling wallet connections and real-time transaction feedback for a non-EVM environment) with high-fidelity GSAP and SCSS UI components, holding 99.9% uptime through high-traffic minting events.

Heaviside Finance United Kingdom · Remote
Frontend Engineer (Contract) Mar 2022 to Jul 2023

- Pioneered the end-to-end frontend architecture for a DeFi platform, scaling from concept to production-ready.
- Architected real-time market data flows via CoinGecko API integration for live price tracking and automated portfolio valuation.

TECH PROJECTS

Shipyard · Self-Hosted CI/CD Deployment Engine 2026

TypeScript, Docker, Nginx, PostgreSQL, Drizzle ORM, PM2, WebSockets, Let's Encrypt

- Built a custom deployment engine from scratch that clones a GitHub repo on push, builds it in an isolated Docker container, runs tests, and deploys to a subdomain, streaming build logs to the browser in real time via WebSocket.
- Implemented HMAC-SHA256 webhook verification, AES-256-GCM secret encryption, and framework detection that auto-generates Dockerfiles for projects without one.
- Provisioned the underlying infrastructure end to end on a Hetzner VPS (Nginx reverse proxy, wildcard SSL, PostgreSQL, PM2).

Conduit · High-Reliability Webhook Delivery Engine 2026

TypeScript, Express, PostgreSQL, Redis, BullMQ, Docker Compose, HMAC signing

- Engineered a source-agnostic webhook relay with signature verification, event storage, Redis-backed queuing, BullMQ workers, and HMAC-signed outbound delivery; verified end to end against real Stripe webhooks in sandbox.
- Applied write-ahead persistence at the application layer (Postgres write before Redis enqueue) so events survive queue failures.

Offline Bridge · USSD-to-Blockchain Protocol 2025 to 2026

Base L2, Celo, Elysia.js, Africa's Talking, TypeScript, GSM Protocol

- Designed a USSD-to-Blockchain protocol that lets users on basic feature phones spin up non-custodial wallets and execute on-chain transactions with no smartphone and no internet.
- Selected as an elite finalist at the W3Node Hackathon; invited to Cape Town, South Africa to pitch live to VCs, investors, and protocol founders at W3Node 2026.

Clipreator · Open-Source AI Video Orchestration CLI 2026

Go, OpenAI Whisper, Anthropic Claude API, ffmpeg

- Built a Go CLI that turns long YouTube videos into short-form clips end to end: local Whisper transcription, Claude for highlight detection, ffmpeg for 9:16 vertical crop and word-by-word animated captions. Full pipeline runs from one command.

Graso · Smart Contract Developer, Sui on Campus Bounty 2024

Sui Move, TypeScript, Sui SDK

- Sole smart contract developer on a 12-person team; delivered production-ready Sui Move contracts and the TypeScript SDK integration layer end to end within a two-week window.

SKILLS AND TOOLS

Backend and Data: Node.js, Express, Elysia.js, Spring Boot, REST APIs, PostgreSQL, MongoDB, Redis, Drizzle ORM, BullMQ

Systems Design: Write-ahead persistence, distributed queues, RBAC, HMAC signing, transaction safety, event delivery

Infrastructure and CI/CD: Docker, Nginx (reverse proxy, wildcard SSL), PM2, Let's Encrypt, Hetzner VPS, GitHub Actions, self-hosted pipelines

Cloud and Security: AWS (Cloud Practitioner), HMAC-SHA256, AES-256-GCM secret encryption, secure delivery

Languages: TypeScript, Go, JavaScript, Python, Java, Bash, Solidity, Sui Move

RECOGNITION AND COMMUNITY

- W3Node Hackathon Finalist and Invited Presenter, Cape Town, South Africa, Jan 2026 (pitched Offline Bridge on stage).
- Certifications: AWS Cloud Practitioner Essentials, JPMorganChase and Wells Fargo Software Engineering (Forage), Nomba Certified Developer, Anthropic AI Fluency.