

Mathew Gerald Chukwudera

Software Engineering Undergraduate · Backend-Oriented Full-Stack Developer · Remote-Ready

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Remote: Owerri, Nigeria (WAT / UTC+1) · open to worldwide remote roles - full EU/UK overlap, afternoon US Eastern overlap · async-first, documentation-driven, Git/PR workflow

PROFESSIONAL SUMMARY

Remote-ready backend-oriented full-stack developer and software-engineering undergraduate (B.Tech, FUTO), strongest on the backend - APIs, PostgreSQL, authentication and C++ tooling. Takes secure production platforms from design through deployment, and works effectively in distributed, async teams through clear written communication, thorough documentation, and a disciplined Git pull-request and code-review workflow. Independently shipped role-based education and healthcare portals, a published TypeScript query library, and C++20 command-line tooling.

TECHNICAL SKILLS

Languages	C++ (C++20/23) · JavaScript · TypeScript · HTML5 · CSS3
Web Engineering	React 18 · Vite · Node.js · Express · REST APIs · Responsive Design
Data & Security	Supabase · PostgreSQL · SQLite · JWT · Argon2id · bcrypt
Practices	Git & GitHub workflow · code review · technical documentation · unit & differential testing · secure-by-default design
Tools & Deployment	Docker · Cloudflare Workers · Netlify · Linux · Visual Studio 2022

PROJECTS

pg-fluent - PostgreSQL Query Library (Open Source)

TypeScript · Node.js · PostgreSQL · node-postgres

- Supabase-style fluent query builder that reuses the postgres-js contract but translates each request into a single parameterized SQL statement executed through node-postgres - the same { data, error } shape without the HTTP hop or JSON re-serialization.
- Codegen CLI derives TypeScript types from a live database schema; a differential test suite asserts parity with PostgREST; ships with benchmarks, observability hooks, LISTEN/NOTIFY and GeoJSON support.

Sherman Nagel Result Portal - School Result Platform (Production)

React 18 · Vite · Node.js · Express · Supabase · Cloudflare

- Role-based results infrastructure: teachers enter scores, administrators manage records, and students redeem scratch-card PINs; printed results are verifiable by QR.
- JWT cookies, bcrypt, optional TOTP 2FA, account lockout, and session revocation; publication-safe edits and transactional end-of-session promotion with explicit placement reporting.
- Full lifecycle shipping: publishing, analytics, CSV export, guardian emails, and live production deployment.

Sherman Nagel CBT Portal - Computer-Based Testing (Production)

React 18 · Vite · Node.js · Express · Supabase · Cloudflare

- Exam ID and PIN sign-in showing only assigned subjects, with scoped admins over questions, schedules and results.
- Timed, shuffled attempts that log violations, sweep expired sessions automatically, and grant controlled retakes.
- Twelve tables and 28 API endpoints covering candidates, attempts, answers and violations, with CSV result export.

GitHub Secrets Watcher - Security CLI Tool

C++20 · libcurl · Git · JSON · ANSI Colors

- Read-only CLI that scans full Git history for accidentally committed secrets, diffing each commit against its first parent so cost scales with what changed; cached clones with incremental fetches; ranked findings with validated links to the exact commit.

Flight Reservation System CLI - Systems / CLI

C++20 Modules · SQLite · Argon2id · Paystack API

- Modular C++20 named-module reservation system covering accounts, seats, persistence, and payment verification.
- Argon2id hashing with unique salts and constant-time comparison; complete Paystack payment pipeline; 30-minute cancellation window with concurrent-seat conflict prevention.

EDUCATION

B.Tech Software Engineering - Federal University of Technology, Owerri, Imo State (FUTO) 2024 - 2029 (Expected)

West African Senior School Certificate (WASSCE / NECO) - Winners International School, Nkpor, Anambra State 2018 - 2024

CERTIFICATIONS & LANGUAGES

Complete Full-Stack Web Development Bootcamp - Dr. Angela Yu (Udemy), completed

Languages: English (Fluent) · Igbo (Native) Interests: Software Engineering · Security · Chess · Continuous Self-Learning