Anthony Oluwaseun Matthew

Senior Web, Mobile App (Android & iOS) & FinTech Software Engineer | Applied Mathematician

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PROFESSIONAL SUMMARY

Senior Full-Stack Web, Mobile (Android & iOS), and FinTech Software Engineer with 5+ years of production experience designing distributed Python microservices (FastAPI, Django REST Framework), cross-platform React Native (Expo SDK 51) mobile suites, and fault-tolerant payment infrastructure. Delivered sub-120ms multi-gateway failover orchestration (EmpireSwitch 2.0), double-entry ACID financial ledgers, HMAC-SHA512 webhook security, and row-level mutex locking (`select_for_update`) on PostgreSQL and AWS. B.Tech in Mathematics (Operations Research) • Verified Top-Tier Global Engineering Benchmark on BairesDev.

TECHNICAL SKILLS

Backend & API Architecture: Python (Django, Django REST Framework, FastAPI), Java, RESTful API Design & Integration, WebSockets, Microservices Architecture, Celery (Asynchronous Task Queues), Redis (Caching & Pub/Sub), WSGI / ASGI Deployment

FinTech & Payment Systems: Multi-Gateway Payment Routing (Paystack, Flutterwave, Monnify, Korapay, Interswitch, Remita), Cryptographic Webhook Security (HMAC-SHA512 verification), Idempotent Transaction Design, Double-Entry Financial Ledgers, Circuit Breakers & Smart Failover

Mobile Engineering: React Native, Expo (SDK 51), React Navigation, Cross-Platform Android & iOS Development, Offline-First Architecture (SQLite & AsyncStorage), EAS Cloud Build, Over-the-Air (OTA) Updates

Frontend Web Development: React.js, TypeScript, JavaScript (ES6+), HTML5, CSS3, Tailwind CSS, Bootstrap 5, Vite, Responsive Mobile-First UI/UX Design

Databases & Data Integrity: PostgreSQL, SQLite, MySQL, ACID Compliance, Row-Level Mutex Locking (`select_for_update` for race-condition prevention), Schema Design & Query Optimization

Authentication & Security: JWT (JSON Web Tokens), OAuth2, Role-Based Access Control (RBAC), Password Hashing (PBKDF2 / Bcrypt), Multi-Factor & OTP Verification (Email/SMS)

DevOps, Cloud & Infrastructure: Docker, Docker Compose, Linux/Unix Shell Scripting, Nginx, cPanel / Passenger Administration, Git / GitHub Version Control, CI/CD Pipelines, AWS (EC2, RDS, S3), Render, Railway

Applied Mathematics & Automation: Operations Research, Linear Optimization, Computational Modeling, Graph Theory, Algorithm Analysis & Performance Profiling, Asyncio Telegram Microservices (`python-telegram-bot` v22+)

PROFESSIONAL EXPERIENCE

Lead Full-Stack, Mobile & FinTech Software Engineer
May 2024 – Present

EmpireCodes Software Studio • Lagos, Nigeria (Remote)

- Architected and launched **EmpireSwitch 2.0** (empirecodes.com.ng/empireswitchv2), an automated multi-gateway payment router built with FastAPI and circuit-breaker telemetry delivering **<120ms failover** across Paystack, Flutterwave, Monnify, and Korapay.
- Engineered zero-custody **PBKDF2-HMAC-SHA256** credential vaults, strict **HMAC-SHA512** webhook validation, idempotent transaction keys, and PostgreSQL row-level mutex locks (`select_for_update`) to guarantee double-entry ACID integrity.
- Built and shipped the **EmpireCodes Tri-Tier Mobile Suite** (Customer, Staff, Executive APKs, 65.7 MB) and **EmpireSwitch Companion** (59.94 MB APK) using React Native & Expo SDK 51 with offline SQLite/AsyncStorage sync, EAS Cloud Build, and OTA updates.
- Delivered 14 production web, mobile, and event-driven automation platforms backed by Docker, Redis Pub/Sub, Celery workers, Nginx, AWS EC2/RDS/S3, and cPanel/Passenger deployments.

Backend Software Engineer & Technical Instructor
May 2022 – July 2024

AnchorSoft Academy • Ikeja, Lagos, Nigeria

- Architected scalable RESTful backend APIs using Python, Django, Django REST Framework, PostgreSQL, Celery, and Redis supporting production React web portals and cross-platform React Native mobile clients.
- Implemented JWT/OAuth2 authentication, granular RBAC permissions, relational schema optimization, and N+1 query elimination across high-concurrency application endpoints.
- Mentored and trained **100+ engineers** in API architecture, ACID database transactions, automated testing, Git workflows, and Linux/cloud deployment practices.

Digital Systems & Procurement Data Officer (Statutory NYSC Service) Sept 2025 – Sept 2026

Somolu Local Government Council • Lagos State (State Code: LA/25B/9969)

- Digitized tender workflows and contractor records across **50+ registered vendors**, reducing document lookup and evaluation turnaround time by **40%** alongside concurrent software engineering delivery.
- Applied Operations Research statistical cost modeling to municipal infrastructure budget allocation; awarded formal **Certificate of Recognition** for volunteer technical instruction at the 2025 Somolu LG Summer Coaching programme.

Full-Stack Web Developer June 2021 – April 2022

AnchorSoft Academy & Production Systems • Lagos, Nigeria

- Engineered responsive e-commerce storefronts, booking systems, and client portals using React.js, JavaScript (ES6+), HTML5, CSS3, Bootstrap 5, and Django.
- Integrated Paystack payment processing with verified webhook callbacks and atomic database updates; managed production AWS EC2 instances, AWS RDS databases, and SSL configurations.

FEATURED PRODUCTION SYSTEMS

EmpireSwitch 2.0 Orchestrator (empirecodes.com.ng/empireswitchv2) — Multi-rail FinTech payment router (FastAPI, PostgreSQL, Redis) with automated <120ms failover, circuit breakers, PBKDF2-HMAC-SHA256 merchant vaults, and a signed companion Android APK (59.94 MB).

EmpireCodes Tri-Tier Mobile Suite (Walkthrough) — Unified React Native (Expo SDK 51) mobile ecosystem comprising Customer Storefront, Staff Order-Fulfillment Scanner, and Executive Analytics apps connected to a role-gated Django DRF & Paystack backend with offline SQLite sync.

EmpireCodes AI Assistant Service (@empirecodes_bot) — Asynchronous event-driven microservice built with `python-telegram-bot` (v22+) and Asyncio implementing multi-step conversational state machines (`ConversationHandler`) for automated lead scoping, budget tiering, and real-time notifications.

Brokerage Hub (brokershub.onrender.com) & **Montreux & Co.** (montreux.onrender.com) — High-traffic real estate and decoupled e-commerce platforms (React + Vite, Django DRF, PostgreSQL, Redis, Paystack); composite indexing & caching cut load times by **20%** and increased engagement by **30%**.

P2PEXC Exchange (p2pexc.online) & **FinTech/OR Demos** — Peer-to-peer crypto exchange on DRF with atomic trade escrow locks, plus live domain systems: *EmpireCodes Platform* (500+ users), *Skindia Bank*, *Prairie Wealth*, *BlueStick Trading*, and *Oregon Trucking*.

EDUCATION

Bachelor of Technology (B.Tech), Mathematics — Operations Research & Computational Mathematics 2018 – Nov 2024

Olusegun Agagu University of Science and Technology (OAUSTECH), Okitipupa, Nigeria

Core Focus: Operations Research, Linear Optimization, Graph Theory, Computational Modeling, Algorithm Analysis & Abstract Algebra.

CERTIFICATIONS, TRAINING & BENCHMARKS

BairesDev Verified Global Engineering Benchmark — Top-Tier Global Talent 2026

BairesDev Technical Assessment Platform

Passed 15 verified technical evaluations in Python 3, React, Mobile Java, Data Structures & Algorithms, and Architecture.

Certificate of National Service (NYSC) — State Code: LA/25B/9969 Sept 2025 – Sept 2026

Federal Republic of Nigeria • Somolu Local Government Council, Lagos (Service: 24 Sept 2025 – 23 Sept 2026)

Completed national service while digitizing tender records across 50+ vendors and applying Operations Research modeling.

Full-Stack Web Development (Front-End Engineering Specialization) Jan 2026 – May 2026

New Horizons Computer Learning Centers • UNILAG, Akoka Branch, Lagos

Completed intensive frontend training in React.js, TypeScript, ES6+ JavaScript, Tailwind CSS, and component state architecture.

Java & Object-Oriented Software Engineering Track 2026

New Horizons Computer Learning Centers • Ikeja Branch, Lagos (2026 Cohort)

Focused on Java Object-Oriented Programming (OOP) patterns, multithreading, exception handling, and core data structures.

Certificate of Recognition — Civic STEM & Mathematics Volunteer Instruction Sept 2025

Somolu Local Government Council • Lagos State

Formal local government award for delivering volunteer STEM & Mathematics coaching during the 2025 Summer Programme.

Certificate of Completion — Full-Stack Web Development (Python, Django & DRF) Sept 2022

AnchorSoft Academy • Ikeja, Lagos

Awarded upon full completion of end-to-end training in Python, Django, DRF, PostgreSQL schemas, and cloud deployment.

Certificate of Competence — Full-Stack Engineering & RESTful API Systems June 2022

AnchorSoft Academy • Ikeja, Lagos

Earned after passing practical hands-on engineering exams in database-backed web apps, REST APIs, and auth workflows.

Certificate of Recognition — Certified Worker Leadership & Stewardship (Cert No. 8773045) Effective 2021 (Presented Oct 2026)

RCCG Lagos Province 124 (RC: CAC/IT/No 919) • Workers in Training Programme

Completed formal leadership, ethical accountability, and stewardship certification (Registration No. 8773045).