

GARE AGANBI

Agentic Full-Stack Developer

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Six production-grade applications across fintech, healthcare, data infrastructure, social platforms, B2B commerce, and algorithmic trading.

01	TapPay	Fintech · Payments · Mobile & Web	usetappay.app
02	Noracle	Data Infrastructure · API Service	Testnet live
03	Lonia	Healthcare · Full-Stack Platform	lonia.ng
04	Philio	Social · Mobile App	philio.io
05	FirstSupply	B2B Commerce · Marketplace	In development
06	TradingBot	Fintech · Algorithmic Trading	In development

All projects are in active development or internal testing. Available for live demo on request.

Engineer by training. Builder by habit.

I bring a systems-level perspective to software development — shaped by 9+ years as a Control Systems and Instrumentation Engineer across power generation (including a 450MW plant), oil and gas, and OT/IT integration. I understand infrastructure from the ground up: PLCs, SCADA, HMI systems, process automation, and the convergence of operational and information technology.

I now apply that engineering discipline to building production-grade full-stack applications using agentic AI development workflows — operating under the agency brand [aganbigare.com](#). I design and ship complex systems end-to-end: database schema, backend APIs, mobile apps, web interfaces, and DevOps. Currently pursuing an Executive MSc in Information Systems Engineering at Harrisburg University.

SKILLS & TECHNOLOGIES

Mobile	React Native · Expo SDK · TypeScript · Expo Router · RevenueCat · Push Notifications · EAS Build · App Store / Play Store
Web	Next.js 14 · React · TypeScript · TailwindCSS · ShadCN/UI · tRPC · REST APIs
Backend	Node.js · NestJS · Express · PostgreSQL · Supabase · Prisma ORM · Drizzle ORM · Redis · JWT Auth · Webhooks
Payments	Paystack · Flutterwave · Transak · VTPass · Termii · Agora.io · Cloudinary · Google Maps · Resend · RevenueCat
AI & Automation	Claude Code · LLM integration · Agentic workflows · Python · Multi-factor signal engines · Telegram Bot API
DevOps	Docker · Railway · Vercel · Supabase · Azure · CI/CD · Git · Linux VPS · Prometheus
Data	SQL Server (T-SQL, SSIS, SSRS) · Power BI · Tableau · Python · yFinance · Finnhub · ETL Pipelines
Engineering	PLC (Allen-Bradley, Mitsubishi) · SCADA/HMI · Control Loop Tuning · Process Automation · Instrumentation

TapPay

Pay anyone. Instant. No bank required.

[usetappay.app](#)

INTERNAL TESTING

TapPay is a full-stack fintech application — a mobile wallet and web platform enabling instant peer-to-peer payments via NFC tap, bill payments, international remittance, merchant payments, and business payroll. Built for the Nigerian market with a UK diaspora remittance corridor. The product spans a React Native mobile app, a Next.js web platform, Supabase Edge Functions, and a B2B REST API — integrated with Flutterwave, Transak, Termii, and VTPass.

KEY FEATURES

- NFC tap-to-pay: phone-to-phone payment in under 2 seconds
- Flutterwave virtual account deposit and bank account withdrawal
- Transak remittance — diaspora send GBP/USD, recipient receives instantly
- Bill payments: airtime, data, electricity (11 providers), cable TV via VTPass
- Split bills with unique per-participant payment links and WhatsApp share
- Merchant QR payments with automatic fee deduction at withdrawal
- Payroll: sequential multi-recipient disbursements with CSV audit trail
- B2B REST API with HMAC-signed webhooks and npm SDK
- Self-custodial wallet with AES-256-GCM encrypted iCloud/Google Drive backup
- PIN creation, biometric auth (Face ID/Fingerprint), 24-hour new-device security freeze

TECH STACK

React Native/Expo	TypeScript	Next.js	Supabase	PostgreSQL	Flutterwave	Transak	Termii	VTPass	Docker	Vercel
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Engineering note — Designed and built a complete fintech stack solo — NFC hardware integration, real-time Supabase subscriptions, payment processing, and a web payment layer using agentic AI workflows.

Noracle

Africa's on-chain price feed.

Testnet live · noracle.io (coming soon)

TESTNET · MAINNET PENDING

Noracle is a production Node.js service that fetches real-time NGN/USD exchange rate data from five independent sources, aggregates them using median computation with outlier detection, and submits verified price reports to a blockchain contract every 5 minutes. Built as infrastructure — the reliable data layer that other applications and protocols depend on. Starting with Nigerian Naira, the roadmap covers every major African currency.

KEY FEATURES

- 5 independent data sources: Flutterwave, Binance P2P, Bybit P2P, Luno, FMDQ/CBN
- Exchange Rate API as primary truth; others serve as deviation monitors
- Median aggregation with outlier exclusion — sources >5% from median rejected
- Minimum 3 valid sources required — fails safely with structured error logging
- Rate sanity validation rejects values outside expected historical range
- Real-time Telegram alerts on consecutive failures
- HTTP health endpoint compatible with standard uptime monitors
- Structured JSON logging via Winston, Prometheus metrics
- Docker Compose deployment on Linux VPS
- Dry-run mode — validates without live submission until governance approval

TECH STACK

Node.js 20	TypeScript	Docker	Prometheus	Telegram Bot API	REST APIs	node-cron	Winston	viem
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Engineering note — A fault-tolerant data aggregation service applying control systems principles: multi-source sensor fusion for reliability, median filtering to resist outliers, and graceful degradation with alerting.

Lonia

Healthcare infrastructure for Nigeria.

lonia.ng · loniahospital.com

PRODUCTION · INTERNAL TESTING

Lonia is a full-stack telemedicine platform — a monorepo of three interconnected products: a public hospital website (loniahospital.com), a web telemedicine portal (lonia.ng), and a React Native mobile app. A NestJS backend powers all three, deployed on Railway with Vercel frontends and Supabase PostgreSQL. The platform orchestrates 8 distinct user roles across a complete healthcare delivery network.

KEY FEATURES

- 8 user roles: Patient, Doctor, Health Worker, Dispatch Rider, Pharmacy Partner, Lab Partner, Admin, Super Admin
- Video consultations via Agora.io with low-bandwidth adaptive streaming
- Distance-based pricing engine: $\text{baseFee} + (\text{perKmRate} \times \text{distanceKm})$
- Pharmacy: dual-pricing model, prescription management, OTC ordering
- Ambulance dispatch and home healthcare service booking
- Lab test ordering with partner portal for results submission
- Paystack webhook-verified payments with server-side initialisation
- Full admin dashboard: user management, analytics, partner onboarding
- Deployed: NestJS API on Railway, frontends on Vercel, DB on Supabase

TECH STACK

Next.js 14	NestJS	React Native/Expo	PostgreSQL	Prisma ORM	Redis	Agora.io	Paystack	Cloudinary	Railway	Vercel	Google Maps	Resend
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Engineering note — Architected a multi-tenant, multi-role platform with 3 separate frontends sharing one backend — spanning ~50 API endpoints, RBAC, real-time video, payment processing, and GPS-based distance pricing, all in production.

Philio

Real connections. Trusted communities.

[philio.io](#)

INTERNAL TESTING -> SUBMISSION

Philio is a community-based introduction and discovery app for iOS and Android. Users belong to communities — church congregations, university networks, friend groups (Bubbles), and career communities. The core mechanic is the 'Ask' feature: users post requests for introductions, suggestions, services, products, or matches. Trusted community members facilitate connections — no algorithms, no swiping, all human-mediated and consent-based. Currently in internal testing ahead of App Store and Google Play submission.

KEY FEATURES

- Four community types: Church, University, Friend groups (Bubbles), Career
- Ask feature: request introductions, suggestions, services, or matches
- Three-step matchmaker flow — dual consent required before chat opens
- Bubbles: private micro-communities with invite-only membership
- Pro subscription via RevenueCat (iOS + Android in-app purchases)
- Community Ambassador Programme with tiered commission structure
- Real-time push notifications, voice notes in chat, deep link invites
- Referral programme, leaderboard, and identity verification flow
- Content filtering, rate limiting, admin dashboard with user management

TECH STACK

React Native/Expo SDK 52	TypeScript	tRPC v11	Drizzle ORM	PostgreSQL/Supabase	RevenueCat	Resend	Railway	Expo Router	Expo
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Engineering note — Built a full consumer mobile app end-to-end as a solo developer — tRPC type-safe API, Drizzle ORM schema, RevenueCat webhooks, push notification system, and App Store submission lifecycle.

FirstSupply

Industrial procurement. Made simple.

In development · Vendors onboarding

VENDOR REGISTRATION

FirstSupply is a B2B e-commerce marketplace for Nigeria's engineering and manufacturing sector — online procurement for industrial equipment and components. Buyers are Nigerian engineering firms; vendors are equipment suppliers and distributors. Built on a foundation of 9 years of firsthand control systems and instrumentation engineering experience.

KEY FEATURES

- 8 product categories: Valves, Instrumentation, Control Systems, Electrical, Pumps & Motors, Renewable Energy, Safety, MRO
- B2B buyer roles with company profile and shipping address management
- Quote request system for complex multi-line industrial orders
- Admin dashboard: full product CRUD, stock management, order processing
- Paystack checkout with webhook-verified order confirmation
- Technical specifications stored as flexible JSON per product
- SEO-optimised category and product pages

TECH STACK

Next.js 14	TypeScript	PostgreSQL	Prisma ORM	Paystack	TailwindCSS	ShadCN/UI	Vercel
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Engineering note — Domain expertise as competitive advantage — product categories, technical specification schemas, and supplier context all informed by a decade of hands-on instrumentation and control systems engineering.

TradingBot

Multi-factor. Automated. Risk-aware.

In development · Paper trading active

DEVELOPMENT · PAPER TRADING

A Python-based multi-factor swing trading bot supporting US equities via Alpaca and cryptocurrency via Kraken. Aggregates 7 weighted signal sources into a strategy engine, manages risk programmatically through a strict execution pipeline, and runs autonomously with a Telegram bot interface and CLI. Currently running in paper trading mode for live validation.

KEY FEATURES

- 7 signal sources: Technical (RSI, MACD, Bollinger Bands), Fundamental, News sentiment, Market sentiment, Insider/Congress trades, Economic calendar, Market scanner
- Signal weights: Technical 40%, Fundamental 35%, News 25%
- Strict pipeline: OrderManager to RiskManager to Broker — no exceptions
- ATR-based dynamic stops, correlation-aware position sizing
- 7% stop loss, 5% trailing stop, 15% max drawdown halt, PDT tracker
- DCA executor, backtest engine (long + short simulation)
- Telegram bot for real-time monitoring and manual overrides
- Docker deployment on Oracle Cloud

TECH STACK

Python	Alpaca API	Kraken API	yFinance	Finnhub	SQLite	Telegram Bot API	Docker	pytest	Click CLI
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Engineering note — Control systems thinking applied to financial automation — multi-source signal fusion, feedback-loop risk management, and graceful fault handling mirror industrial process control principles.

CONTACT

Available for software engineering roles.

All six projects are active, production-grade systems — each reflects real architecture decisions, real integrations, and real users incoming. Available for a technical walkthrough, code review, or live demo of any project at your convenience.

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Location Maryland, US — open to remote
