

João Matias Domingos Kwanza

Full-Stack Engineer — Trading Systems, Crypto Payments & AI Automation

OPEN TO FULL-TIME, PART-TIME & CONTRACT · 100% REMOTE OR WILLING TO RELOCATE

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PROFILE

Full-stack engineer who designs, builds and operates complete financial systems end-to-end — solo. Founder of VARJIX, trading **infrastructure** (the "Shopify for trading platforms") live in production: operators launch their own branded platform in ~30 seconds — **107 live operator platforms, 817 traders** and **~590 live broker connections** on Deriv, over a double-entry ledger, self-hosted USDT (TRC-20) settlement and a **21-endpoint** public API. Also built VARJIX Studio, an autonomous AI pipeline publishing documentary video across **8 YouTube channels**. 4th-year Accounting & Finance student — reads balance sheets as fluently as stack traces. Fluent English; UTC+1, full EU overlap.

EXPERIENCE

Founder & Lead Engineer · VARJIX

Oct 2025 – Present

Remote · Multi-tenant trading infrastructure (B2B SaaS) · varjix.com

- Scaled to **107 live platforms, 817 registered traders** and **~590 live broker connections** on Deriv's official API (options and multiplier products) over auto-reconnecting WebSocket infrastructure — trader funds are held at the licensed broker; VARJIX never custodies client trading funds.
- Built **multiple distinct platform templates** — each a complete production trading app on its own stack/charting/architecture: real-time charts, live order execution, positions & settlement, wallets, copy-trading, an **internal community feed, live chat & marketplace**, a **no-code bot builder** and **autonomous AI trading agents**. Operators **launch, manage and fully control** their own business — **100% self-service, no support tickets**: launch in ~30 seconds, brand it, connect their own broker token to earn markup, buy & attach a custom domain in one click, and run traders, payouts and settings themselves.
- Financial core, self-built: double-entry ledger, real-time revenue capture at trade execution, and **multi-chain crypto settlement** (USDT on Tron/TRC-20 plus additional networks) with per-user HD wallets and on-chain confirmation listeners — no third-party payment processor; funds stay at the licensed broker.
- Shipped Public API v1 (**21 endpoints**) with a developer console, API-key metering & billing, plus an **18-tool MCP server** that lets AI agents operate the platform end-to-end, and **numerous internal service APIs** wiring the whole system together.
- **The entire business runs fully autonomously**: **VÍRA**, a 24/7 omni-channel AI agent (WhatsApp, Telegram, website, partner dashboards), finds and negotiates with partners, answers questions and auto-publishes blog content **optimized for SEO and AI-search (GEO)** so the brand surfaces in AI answers; internal agents and cron pipelines handle activation, analytics, payouts and growth with no human in the loop. Plus a defensive trade-execution pipeline and an LLM trading agent gated on explicit human confirmation before any real-money order.
- Own the infrastructure end-to-end from Luanda: Linux VPS, nginx, PM2, PostgreSQL/Prisma, zero-downtime deploys, monitoring and incident runbooks.

AI Systems Engineer · VARJIX Studio

Jan 2026 – Present

Solo founder project · Autonomous AI documentary production system

- Built an end-to-end autonomous pipeline that researches, scripts, voices, edits, quality-checks and publishes long-form documentary video — **45+ videos** across **8 YouTube channels**, no human in the loop.
- Production LLM orchestration (Gemini, Groq): self-auditing script generation, Gemini Batch API integration, multi-provider failover, JSON-repair and retry hardening for unattended 24/7 operation.
- Programmatic video with Remotion (React) — data-driven cinematic compositions, multi-voice TTS, loudness-mastered audio — plus full YouTube Data/Analytics API automation: resumable uploads, peak-time scheduling, AI thumbnails with vision-model QA, and retention-curve feedback loops that tune future output.

Founder & Engineer · Titan System

Mid 2023 – 2024

Solo founder project · Trading-discipline & automated-trading platform

- Founded and built **Titan System** end-to-end — a platform combining bankroll management, trading-psychology tools and education to help retail traders become consistent. Grew to **~120 traders**.

- Ran two revenue lines: **broker revenue-share** (introducing-broker partnerships) and a **3% markup** on an integrated automated-trading product, with paying subscribers.
- Its automated-trading engine evolved into the **Velocity Trader** template now offered on VARJIX — and the idea of letting *others* launch their own platform became VARJIX itself.

SELECTED PRODUCTION WINS

- Diagnosed and fixed a silent balance-drift bug in the production double-entry ledger; restored full reconciliation with **zero customer impact**.
- Replaced a fragile single-shot **1.4 GB** upload with a chunked, resumable, session-retrying pipeline — it survived repeated live network failures on its first production run.
- Cut total LLM spend **~60%**: Batch API pricing (~50%) plus a strict one-generation-per-output policy.

SKILLS

CORE	TypeScript, Node.js (Fastify), Python, SQL, Git, HTML/CSS
FRONTEND	Next.js, React, Vite, Zustand, Tailwind CSS, Framer Motion, charting libraries (TradingView / lightweight-charts), SPA architecture — adapts stack per product
BACKEND & DATA	PostgreSQL, Prisma, REST APIs, WebSockets, multi-tenant architecture, queue/cron pipelines
TRADING & BROKERAGE	Broker API integration (Deriv, Binance), market data & tick streams, order execution, copy trading, risk & execution controls, reconciliation
CRYPTO & WEB3	Multi-chain crypto payments (USDT on Tron/TRC-20 + additional networks), stablecoin settlement, HD wallet derivation (BIP-44), on-chain confirmation listeners, treasury reconciliation, wallet infrastructure
REALTIME & PRODUCT	WebSocket live data, community feed · live chat · marketplace, no-code bot builder, copy-trading, internal service APIs, autonomous AI agent systems
AI ENGINEERING	LLM agent orchestration (Gemini, Groq, Claude), MCP servers, function calling & structured outputs, prompt & spec-driven development, model evaluation pipelines, SEO & AI-search / GEO optimization
OPERATIONS	Linux, nginx, PM2, PostgreSQL administration, zero-downtime deploys, incident response

EDUCATION & LANGUAGES

B.Sc. Accounting and Finance Tocoísta University, Luanda (<i>in progress</i>)	2022 – 2027	Languages Portuguese — native · English — fluent (daily calls & written work)
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Software Engineering
Self-taught — *the systems above are the credential*