

Tochi Ugochukwu

Software & Automation Engineer · Applied AI · Trading Systems

Los Angeles, CA · tu@tochiugo.com · (317) 833-2695 · tochiugo.com · LinkedIn · GitHub

PROFESSIONAL SUMMARY

Self-taught software and automation engineer who designs, ships, and operates production systems: a live AI trading engine (15,000+ recorded trades across 89 production runs, with Bayesian capital allocation, layered risk controls, and full decision provenance), a native iOS evidence-capture app, and a portfolio of automation pipelines — each backed by runtime logs and operational evidence. Builds rapidly with modern AI development tools (Claude Code, Cursor, Codex, Gemini). CompTIA Security+ certified, with 10+ years of founder experience building and running businesses. Available immediately.

CORE SKILLS

AI Development Tools: Claude Code · OpenAI Codex · Cursor · Gemini · ChatGPT · GitHub Copilot · Windsurf · Bolt · v0 · Replit AI

AI / ML Engineering: Python · Pandas · NumPy · XGBoost · Model Calibration (Brier) · LLM Integration · RAG Pipelines · Vector Search · Embeddings · Prompt Engineering · Multi-Agent Orchestration

Automation & Systems: Event-Driven Pipelines · REST APIs · WebSockets · PostgreSQL · SQLite · Telegram API · Docker · Git · Cron · Process Automation

Languages & Tools: Python · TypeScript · JavaScript · Bash · Swift · Node.js · Linux · Vercel · JSON · YAML · CI/CD basics

Security: CompTIA Security+ · Splunk SPL · Google Chronicle · YARA-L · MITRE ATT&CK · NIST IR · Wireshark · Kali Linux · Nmap · IOC Analysis

AI / ML & AUTOMATION PROJECTS

Polymarket AI Trading Engine — Mission Control (V15.4) Personal Project · Operational 24/7 (live public dashboard at tochiugo.com)	2023 — Present
- Architected a five-layer trading system — autonomous governor, Bayesian capital allocator, independent strategy sleeves with per-sleeve P&L and drawdown budgets, pre-trade risk veto chain, and execution with per-fill transaction-cost analysis — over the Polymarket CLOB/Gamma and Kalshi APIs. - Operated across 89 production runs: 8M+ markets scanned, 4.5M+ evaluations, and 15,000+ recorded trades persisted to a SQLite provenance store where every decision is replayable end-to-end. - Integrated an XGBoost model with a quality gate (veto power only above 0.55 validation AUC) and automatic retraining on resolved trades; probability calibration scored as skill against the market baseline. - Implemented maker-entry execution that recovers a measured 1.9% taker spread cost, gated behind a 7-criteria objective live-readiness scorecard; encrypted key handling (PBKDF2 + Fernet). - Built the public "Mission Control" dashboard: a sanitized bridge publishes live metrics — PnL, win rate, calibration, open positions, and a log tail — with all secrets whitelisted out.	
WitnessPro — Dual-Camera iOS Evidence App Native iOS Product	2023
- SwiftUI app using AVCaptureMultiCamSession for simultaneous front/rear recording — an uncommon AVFoundation capability. - Seals GPS + timestamp metadata into every capture for legal chain-of-custody; searchable, encrypted Evidence Vault. Stack: Swift · SwiftUI · AVFoundation · CoreLocation · StoreKit 2.	
Automation Ecosystem — Nexus Bot · SHARP · 15 Minutes · SportyBot · Bet Bot · Nexus Drive · TryOn	2022 — Present
- Node.js orchestration fusing Kalshi markets, news, crypto, economics, and weather signals with LLM-based scoring (Nexus Bot); high-frequency scalping automation with resilient WebSocket reconnects and daily JSON reporting (SHARP, 15 Minutes). - Playwright browser automation with SQLite-backed bet tracking and Telegram notifications (SportyBot, Bet Bot); on-device Android automation with phase-based scheduling (Nexus Drive); an Expo / React Native virtual try-on app with a credit-metered render pipeline (TryOn).	

SECURITY EXPERIENCE

Independent Security Analyst — Home SOC Lab2024 — Present

Simulated Lab Environment

- Triaged 200+ simulated events mapped to MITRE ATT&CK using Splunk Enterprise and Google Chronicle; authored Splunk SPL and Chronicle YARA-L detection rules.
- Wrote 6 NIST IR-aligned playbooks (Phishing, Ransomware, C2, Brute Force, Insider Threat, BEC); packet analysis with Wireshark; recon with Kali/Nmap.

EXPERIENCE

Founder & CEO — Meridian Nexus Global LLCMar 2025 — Present

Los Angeles, CA · International Trade & Vehicle Export

- Founded and operate an international logistics and vehicle-export business serving U.S. and Nigerian markets; built internal automation for operations, lead management, and shipment tracking.

Founder & CEO — Tochiugo Global Mark Limited2012 — Present

Nigeria · Manufacturing & Distribution (family-managed since U.S. relocation)

- Built a manufacturing and distribution company around TOCHIUGO BOND, a proprietary ISO 9001:2000-certified aluminium-composite-panel brand, with a supply chain spanning China and Brazil; operated it directly for 10 years.

Correctional Officer — State of Indiana, Dept. of CorrectionsOct 2024 — Apr 2025

Pendleton, IN

- Monitored facility security systems and produced structured incident documentation while independently building AI/automation systems and earning cybersecurity credentials.

CERTIFICATIONS & EDUCATION

- CompTIA Security+ ce — Feb 2025 (Active, exp. 2028)
 - Google Cybersecurity Professional Certificate V2 — 2024
 - High School Diploma (GED) · Self-directed technical training in AI/ML, software development, and automation (2022–present)
- Google IT Support Professional Certificate V2 — 2025
 - TryHackMe — Top 8% global (172K+ score, 50+ rooms)

AVAILABILITY

Authorized to work in the United States — no employer sponsorship required. Open to on-site (Southern California) or remote. Available immediately.

References and the full per-project engineering evidence available on request · tochiugo.com