Rayano Smith

Full-stack developer

Kingston, Jamaica
dardsburz@gmail.com
tradersroom.net

SUMMARY

Self-taught. I designed, built and run Traders Room on my own, a real-time analytics platform for futures and options traders, from the data pipelines and pricing models down to the Linux servers it runs on. I care a lot about speed, and I build with security in mind from day one.

EXPERIENCE

Traders Room — Co-Owner & Sole Developer

2026 – Present

- Built the whole platform in Python and JavaScript: live dashboards, interactive charts, 3D data views, accounts and sign-in (Discord, Google), a members' academy, a trading journal and an admin panel.
- Built the pipelines that pull options and futures data, crunch it and publish it, nightly and live through the trading day. If a source goes down, the site falls back instead of breaking.
- Wrote the options and volatility models behind the site's daily levels, expected ranges and probability estimates.
- Profiled the stack and fixed what was actually slow. Main pages went from 25 ms to about 6 ms of server time, memory use roughly halved, and cutting repeated TLS handshakes freed up most of the web server's CPU.
- Rewrote the live market-data reader to keep up with about 17,500 messages a second, then wrote a load-testing tool that replays real user sessions. The site served 200 people at once with zero errors.
- Locked down the app and servers: server-side login and role checks, secure cookies, CSP, TLS, key-only SSH and services that run with only the access they need. Then moved everything to a new host with daily backups.

Discord Communities — Community Manager & Bot Developer

2023 – Present

- Ran communities of several hundred members, handling reports and disputes and keeping things friendly and on topic.
- Wrote a Python bot that verifies members and hands out roles on its own. It re-checks everyone every 12 hours and removes access, with a DM explaining why, when someone no longer qualifies. No moderator needed.
- Hooked Discord roles into the website so members sign in with Discord and get exactly the features their role allows. Moved all 216 verified members to the new bot without anyone having to re-verify.
- Set up servers from scratch, from roles and permissions to onboarding, and automated the repetitive moderation work so the team could spend its time on people.

PROJECTS

Options model reverse-engineering — Python

- Figured out how two commercial analytics platforms calculate their options levels, then rebuilt the models from scratch using licensed market data. My Greeks matched a reference source to within 0.1%.

Duet — Electron, TypeScript, WebRTC · private, not publicly released

- Two-person video calling and remote-help app for Windows and macOS: screen sharing, webcam, voice, chat, drawing on the other person's screen, a 60 fps watch-together mode, and remote control the host has to approve.
- Runs peer-to-peer and encrypted. Both people see a matching code that proves nobody is listening in, and a panic hotkey kills remote control instantly.

Market research and trading tools — Python, C#/.NET

- Built futures datasets from 15 years of tick data and put 160+ strategies through out-of-sample and placebo tests.
- Wrote 20+ real-time indicators in C# for a desktop trading platform, checked against Python versions, and a NinjaTrader 8 add-on that copies trades between accounts.

SKILLS

Languages / Python, JavaScript, TypeScript, C#, SQL, HTML/CSS
Frameworks and tools / FastAPI, pandas, Electron, WebRTC, Caddy, systemd, py-spy, Zendesk
AI / LLM APIs, prompt design, grounding and output checks, AI coding agents (Claude Code)
Discord / server setup, roles and permissions, custom bots, workflow automation
Infrastructure / Linux (Ubuntu), SSH, cloud VPS hosting, backups and migrations
Security / server hardening, access control, TLS, CSP, OAuth
Spoken / English, Jamaican Patois, Spanish (basic)

EDUCATION

Jamaica College — High School Diploma

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