

JUMA TANDANYA

Founder & Full-Stack Engineer

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SUMMARY

Self-taught full-stack engineer and founder who ships real products end to end: UI/UX design, database schema, cloud infrastructure, and production deployment. Operator of a live content platform with paying-creator infrastructure, remote engineer for Cracked Lemonade Stand since 2023, and contract engineer delivering commercial products for clients. Comfortable owning everything: design, architecture, payments, migrations, native mobile, and the unglamorous ops in between.

EXPERIENCE

Founder & Full-Stack Engineer, MaterialCrate

2022 to present

- Founded and operate MaterialCrate, a live, post-MVP academic content-sharing platform for students worldwide. Started in 2022, rebuilt and relaunched in February 2026.
- Designed and built a token-based creator economy with mobile money payouts, plus free, pro and premium subscription tiers via Gumroad.
- Engineered a custom plagiarism-detection system using SHA-256 fingerprinting with MinHash/LSH for chunk-level similarity matching across uploaded documents.
- Run production infrastructure across Supabase, Railway and Vercel.

Remote Engineer, Cracked Lemonade Stand

2023 to present | Remote, US

- Build internal web tooling in React and TypeScript, including an interactive organization graph using React Flow.
- Built the Trybe mobile app end to end in React Native and Expo: auth stack, an eleven-screen onboarding flow, chat, thread management and the shared component and theming layer.
- Implemented thread and chat management on the Trybe Next.js web client, plus session handling on token refresh and human-readable API error handling.
- Fixed memory recall in the Python LangGraph matchmaker agent and dependency resolution in the agents Dockerfile.
- Work asynchronously across time zones with a distributed team; contribute to engineering and internal process tooling.

Contract Engineer, MagicVPN

2026 | Client work

- Sole developer of MagicVPN, a commercial VPN for mainland China: backend, mobile client, native tunneling module and web admin panel. Android shipped first, iOS to follow.
- Built a native Kotlin module bridging React Native to a sing-box libbox core, establishing a TUN device via Android VpnService for real packet-level tunneling.
- Deployed four evasion protocols (WireGuard, VLESS+REALITY, Hysteria2, Trojan+JLS) to withstand active probing and TLS fingerprinting.
- Delivered a Next.js admin panel so the client can manage users, servers and configuration without a developer in the loop.

Contract Engineer, Supply Circuit

Delivered June 2026 | Client work

- Delivered Supply Circuit, a full eCommerce web application, end to end for a paying client as sole engineer from architecture to production.
- Executed a complete Firebase-to-AWS migration: DynamoDB data modeling, dual Cognito user pools, Lambda, API Gateway, S3, SES and Secrets Manager.
- Built the React 18 + TypeScript + Vite storefront and a WhatsApp-based order-notification flow suited to the local market.

Contract Engineer, Hyperlink Software Technology LLC

2026 | Client work

- Designed and built the corporate website for a US-registered software company, built to satisfy bank account review.
- Single self-contained HTML file with inline CSS and vanilla JS, no build step, deployed on Vercel with GitHub

Actions.

TECHNICAL SKILLS

Frontend React, Next.js, TypeScript, Vite, Tailwind CSS, React Flow, React Three Fiber
Mobile React Native, Expo, Kotlin, Android VpnService, MapLibre, EAS Build
Backend Node.js, Express, Rust, Python, FastAPI, Prisma ORM, PostgreSQL, DynamoDB, REST APIs
Cloud / Infra AWS (Cognito, Lambda, API Gateway, S3, SES, DynamoDB, Amplify), Supabase, Railway, Vercel, Firebase, Docker
Other Mobile money integration, Gumroad subscriptions, content fingerprinting, VPN protocols, UI/UX design in Figma

EDUCATION

Grade 12 Certificate, Kitwe, Zambia

LANGUAGES

English: Fluent