

# JUMA TANDANYA

## Founder & Full-Stack Engineer — ProtagenLabs

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## SUMMARY

Self-taught full-stack engineer and founder who ships real products end-to-end — from database schema to cloud infrastructure to production deployment. Founder of ProtagenLabs, operator of a live content platform with paying-creator infrastructure, and remote engineer for a US startup since 2023. Comfortable owning everything: architecture, payments, migrations, and the unglamorous ops in between. ProtagenLabs is expanding into web, mobile, and game projects.

## EXPERIENCE

### Founder & Full-Stack Engineer — ProtagenLabs

*Kitwe, Zambia · 2022 – Present (incorporated May 2026)*

- Founded and operate **MaterialCrate** — a live, post-MVP academic content-sharing platform for students worldwide, started in 2022 and rebuilt/relaunched in February 2026.
- Designed and built a token-based creator economy with **mobile money payouts**, plus free/pro/premium subscription tiers (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** (PostgreSQL + Prisma), including a full live-platform hosting migration; integrated AI-assisted features and transactional email (Resend).

### Software Engineer (Part-Time, Remote) — Cracked Lemonade Stand

*United States (remote) · November 2023 – Present*

- Build internal web tooling in **React + TypeScript** for a US startup, including an interactive organization graph using React Flow.
- Work asynchronously across time zones with a distributed team; contribute to engineering and internal process tooling.

### Freelance Full-Stack Engineer — SupplyCircuit Zambia Limited (client)

*Contract · Delivered June 2026*

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

## TECHNICAL SKILLS

<b>Frontend</b>	React, Next.js, TypeScript, Vite, Tailwind CSS, React Flow
<b>Backend</b>	Node.js, Express, Prisma ORM, PostgreSQL, DynamoDB, REST APIs
<b>Cloud / Infra</b>	AWS (Cognito, Lambda, API Gateway, DynamoDB, S3, SES, Secrets Manager, Amplify), Supabase, Railway, Vercel, Firebase
<b>Other</b>	Payments (Gumroad, mobile money integration), content fingerprinting (SHA-256, MinHash/LSH), transactional email (Resend, SES), Git/GitHub

## EDUCATION

### Copperbelt University — Three years of study (no degree awarded)

*Kitwe, Zambia*

### Grade 12 Certificate

## LANGUAGES

English — Fluent