

FRANK DUMOLUHLE NCUBE

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EDUCATION

Livingstone College - Salisbury, NC

Expected December 2029

Bachelor of Science in Computer Information Sciences | GPA: 4.0/4.0
Relevant Coursework: Programming Fundamentals, Computer Information Systems, Networks & Telecommunications, College Mathematics

TECHNICAL SKILLS

Languages: Python, JavaScript, HTML, CSS
Web & Cloud: Next.js, React, Tailwind CSS, REST APIs, Supabase, Vercel, Sanity CMS, AWS
AI & Data Systems: LLM integration, Claude API, TF-IDF, retrieval, prompt engineering
Tools: Git, GitHub, VS Code, Replit

SELECTED PROJECTS

Triage360 - AI Support Triage System2026

TypeScript, React, Express, PostgreSQL, Claude API, Python

- Built a full-stack support-triage system that classifies tickets, evaluates six escalation-risk categories, retrieves relevant support documentation, and generates grounded AI responses or routes high-risk cases to humans.
- Implemented a React/Vite + Express/PostgreSQL web app with streaming responses, ticket history, and stats; maintained an earlier Python CLI prototype using TF-IDF + semantic retrieval.

Streetwise - Context-Aware AI Offer App2026

React, TypeScript, Supabase, PostgreSQL, Edge Functions

- Built a context-aware offer app that ranks active merchants using scenario relevance, demand, proximity via haversine distance, and discount value, then generates structured time-limited offers through a Supabase Edge Function.
- Implemented Supabase Auth, Row-Level Security, merchant analytics, redemption token/QR flows, live countdowns, and explicit demo fallbacks when merchant data or AI generation is unavailable.

Multi-Tenant Commerce Platform2026-Present

Next.js, Supabase, PostgreSQL, Vercel

- Designing and building commerce infrastructure for branded online stores with multi-branch inventory, staff, orders, subscriptions, and local-payment support.
- Defined tenant isolation, API boundaries, database migrations, observability, rate limiting, feature flags, staged releases, and rollback controls.

EXPERIENCE

Frank Wi-Fi Hotspot Business - Founder & Operator | Zimbabwe2024-Present

- Founded and operate a community internet-access business using Starlink connectivity and voucher-based service, providing affordable connectivity to approximately 100-200 households and coordinating ~30 people across sales, marketing, installation, and maintenance.
- Manage connectivity, customer access, network operations, and remote monitoring across multiple hotspot locations to expand affordable internet access.

Livingstone College Academic Support - Math & Science Tutor | Salisbury, NC2026-Present

- Tutor 10+ students in mathematics and science, translating difficult concepts into step-by-step problem-solving methods and targeted practice.
- Adapt sessions to individual learning gaps and use guided feedback to strengthen problem-solving and course performance.

CERTIFICATIONS & LEADERSHIP

Certifications: AWS Academy Graduate - Cloud Foundations | AWS Academy Graduate - Generative AI Foundations | CompTIA Network+ - In Progress
Leadership: HBCUniverse Campus Ambassador | HBCU Heroes Participant