

D. Vehu Alonge

Systems & Agentic Engineer

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SUMMARY

Ships production products and the systems beneath them. Author of Standards and PythonChef. Built Geomedpharm, ECDSA, CipherDuel and Trackly. Open to remote roles worldwide.

EDUCATION

B.Sc., Computer Science, Federal University Lokoja
4.2 CGPA (2022 to 2026)

B.Sc., Zoology, Kogi State University Anyigba
3.4 CGPA (2013 to 2017)

SKILLS

Frontend

Next.js, TypeScript, Tailwind,
React Native

Backend & Systems

Node.js, Rust, Python, REST APIs

Data & Auth

PostgreSQL, Prisma, Drizzle,
SQLite, MySQL, Zod

Focus: Applied cryptography (ECDSA, RSA, ECC/ElGamal) · AI-agent developer tooling · CLI & systems programming in Rust

EXPERIENCE · 3+ YEARS

Software Engineer | November 2022 – Present

Ukoza Labs | Next.js, TypeScript, Rust, PostgreSQL

- Ship production web applications end-to-end, Next.js and TypeScript front ends against Rust and Node services, owning each from schema design through deployment.
- Consolidated the UI onto a shared, strictly-typed React component layer, so screens are assembled from reviewed primitives instead of being rebuilt per project.
- Designed the REST contracts between client and services, validating every external input with Zod at the boundary so malformed requests fail before reaching the database.
- Reduced client-side load by code-splitting routes, memoising render-heavy trees and deferring below-the-fold work, measured on Core Web Vitals.
- Built a data-driven theming layer so a new client skin ships by editing configuration rather than components.
- Introduced branch-and-review Git workflow and structured error handling, so errors name the failing operation.

Independent Engineering | 2023 – Present

- Shipped 19 production web applications across client platforms, e-commerce and internal tools, 8 on their own domains including thepulsestudio.com, alkabgadgets.com and pevcang.org.
- Built Geomedpharm, a pharmacy e-commerce platform (web and mobile) on dual Neon/SQLite drivers with zero-downtime migrations and product-ledger accounting.
- Built imagify, a multi-tenant image-upload control plane issuing short-lived signed Cloudinary tokens, so apps never rebuild upload plumbing.
- Published Trackly to Homebrew, a Rust progress tracker for coding agents that turns weighted completion into a terminal scoreboard.

SELECTED PROJECTS

ECDSA in Rust. Elliptic Curve Digital Signature Algorithm built from scratch, with mathematical foundations, tests, and an ECDH demo. *Rust*. github.com/vehutech/elliptic-curve

Standards. 26 rules for AI systems building production software; extends Karpathy's CLAUDE.md, adopted via a one-line installer. *Shell · Markdown*. github.com/vehutech/standards

CipherDuel. B.Sc. Computer Science final year project: live ECC vs ElGamal performance and security benchmarking, deployed full-stack. *Next.js · Python · Vercel + Render*. github.com/vehutech/ecc-elgamal

LocalShare. LAN file-sharing server in Rust with QR-code device pairing. *Rust*. github.com/vehutech/localshare