



duke.sol

Solana Builder, Researcher, and Writer

Consumer and infrastructure products, protocol and security research, and the threads and reports that make it useful to others.

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PROFILE

I ship consumer and infrastructure products across Solana and Circle's Arc. Most recently I founded and led Siren, a prediction market trading terminal that integrated Kalshi and Polymarket, Privy embedded wallets, and real-time PnL over live USDC and SOL balances, the same shape of problem as production prediction-market apps. I also run protocol and security research, including an independent Phase 1 audit of Toly's Percolator that was quoted and verified by Anatoly Yakovenko, and I write the threads, articles, and weekly reports that make the work useful to others. Solana builder since 2023 and Core Member at Superteam Nigeria.

EXPERIENCE

Founder and Lead Developer

2025

Siren, prediction market trading terminal

- Built a prediction market trading terminal that aggregated Kalshi (via DFlow) and Polymarket, integrating live order placement, position tracking, and closing across providers.
- Implemented Privy embedded wallets with real-time USDC and SOL balance reads using Solana web3.js and SPL token accounts.
- Built a persistent data layer on Supabase for hedge history and PnL, moving beyond localStorage, with real-time PnL updates in place of polling.
- Designed a natural language trading agent covering intent parsing, market matching, and edge-case handling, plus a risk layer for correlation and concentration.
- Hardened API routes with error handling and retries; shipped end to end and processed over \$2,000 in trading volume.

Independent Builder and Researcher

2023 – Present

Solana and Circle's Arc

- Shipped Keryx, a pay-per-call monetization layer for AI agents on the x402 protocol with USDC settlement on Arc, with a full site, docs, and whitepaper.
- Published an independent Phase 1 security audit of Toly's Percolator risk engine, quoted and verified by Anatoly Yakovenko, then shipped the Percolator SDK and dashboard on npm as @percolatortool/sdk.
- Shipped Gloam (private trading on Robinhood Chain), Onca (Solana agent-payment tooling in Rust), Hanko (claim records for tokenized assets), Swindle (AI chess arena with on-chain USDC wagering), Vector, Bulldropper, crewdeck, and Deriverse.

Core Member and Community

2024 – Present

Superteam Nigeria

- Core contributor driving growth of the Solana ecosystem in Nigeria.
- Run technical workshops, create educational content, and connect developers with resources and opportunities.

Frontend and Product Developer

2023 – Present

Freelance and Partner Projects

- Built responsive React, Next.js, and TypeScript web applications and Web3 product interfaces.
- Delivered brand identity and a production e-commerce site for KD Essence, plus landing pages and dashboards that improved performance and engagement.

— SELECTED WRITING

- The Aggregator Inversion (BullpenFi)
- The Security Layer for Solana's Agent Economy (Bento Guard)
- Prediction Markets Are Not Gambling
- The Precision Gap (Tropa)
- Building on Bayse
- solweekly, weekly Solana ecosystem reports

— ACHIEVEMENTS

- 3x hackathon winner: Superteam Earn sidetracks (Torque Protocol, Sagapad, Jupiter)
- 14x Superteam Earn bounty winner
- Percolator Phase 1 audit quoted by Anatoly Yakovenko (Toly)

— SKILLS

LANGUAGES

TypeScript, JavaScript, Rust (SDK), Node.js

FRONTEND

React, Next.js, Tailwind CSS, Framer Motion

BACKEND AND INFRA

Fastify, REST / GraphQL, Supabase (Postgres, Auth, Storage), webhooks

SOLANA AND WEB3

web3.js, Wallet Adapter, SPL / Token-2022, Jito, x402, USDC, Privy, Jupiter, DFlow

PRACTICE

Security research and auditing, data pipelines, technical writing, Git

— LANGUAGES

English (Fluent)

French (Intermediate)

Igbo (Fluent)

— EDUCATION

Secondary School Certificate

St. Paul's Academy, Jos

2017 – 2023, Science and Mathematics