

Anuj Tanwar

Lead Protocol Engineer | Solana, EVM & Backend Systems

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Available immediately | Remote worldwide | Open to relocation

PROFESSIONAL SUMMARY

Lead protocol engineer with 3.5 years building DeFi protocols and backend systems using Rust, Solidity and TypeScript. Own smart contract development on Solana (SVM) and Ethereum (EVM), perpetual trading and liquidation engines, on-chain execution, custody and settlement. Lead delivery from protocol design and prototypes through security review, deployment and production operations.

PROFESSIONAL EXPERIENCE

WhiteKnight / Fatsats

Co-founder, Protocol & Backend | Aug 2026 - Present | Remote

WhiteKnight's Solana automation protocol and live Fatsats operator/app for the Sat Rush mining game; ~\$500 early revenue by Sep 2026.

- Delivered the live product across Rust/Anchor custody, a Node.js operator and most of the Next.js app; enforced user-set fee ceilings, per-round spending limits and permissionless collection on-chain.
- Separated off-chain strategy from on-chain custody controls; upgraded the mainnet program without changing account layouts and coordinated ABI, SDK and client releases.
- Built chain-based settlement and ticket recovery, operator runbooks and scheduled accounting checks; tested custody and claims in LiteSVM against Sat Rush mainnet bytecode.

Diamond Pools

Co-founder, Contracts & Backend | May 2026 - Present | Remote

Flagship ORE yield protocol on Solana, in mainnet beta; three-person founding team.

- Architected Rust/Anchor vaults for Mining, Staking and Protocol pools: NAV-priced shares, forward-priced settlement, reserved exit liquidity and live-account migrations.
- Built shared-inventory accounting that preserves original sellers' unpaid proceeds through capped payouts; added price-based exposure limits and keeper custody reconciliation.
- Built slot-aware execution with adaptive timing and landing telemetry; on-chain round/tile guards allow repeated submissions without duplicate purchases. Coordinated the account migration and ABI/SDK release.
- Built the TypeScript data backend: chain ingestion and historical backfill into PostgreSQL, with cached REST/WebSocket APIs for the customer app.

Adrena

Lead Protocol Engineer | Dec 2025 - Jul 2026 | Remote

Solana perpetuals DEX; ~\$890M traded across 941 traders during tenure. Trading wound down in 2026.

- Led protocol engineering with one direct report in a five-person team; worked directly with both founders, including the CTO, and coordinated delivery with the quant specialist.
- Designed and shipped the Virtual Funding Rate engine: open-interest imbalance drives payments between longs and shorts, with per-market caps and settlement throughout the position lifecycle.
- Built provider-consensus checks and a Rust publisher for signed price feeds (~94,000 batches/day recorded), with RPC failover inside the protocol's seven-second freshness window.
- Authored Rust liquidation, stop-loss/take-profit and limit-order keepers; co-developed Yellowstone gRPC execution with Jito submission and operated the venue's non-voting Solana RPC node.
- Launched five synthetic perpetual markets (gold, silver, WTI, S&P 500, NVDA) across contracts and trading interfaces, with signed market-hours attestations and closed-market trading gates.
- Led Fidesium audit remediation: triaged 33 findings, patched 15, introduced a 48-hour admin-transfer timelock and documented verifiable releases executed through DAO governance.

Autonom

Backend Engineer, Oracle & Market Data (part-time) | Mar 2026 - Jul 2026 | Remote

- Integrated Treasury-bill rates, VIX, Nikkei 225 and US/Hong Kong equities into Rust price feeds, with currency conversion, provider tests and signed per-feed trading windows.
- Built Adrena-compatible signed market-data APIs in Rust/Axum with byte-exact payload validation; diagnosed and fixed a production HTTP/2 connection hang.

Doot Foundation

Founder & Sole Engineer | Oct 2023 - Dec 2025 | Remote

Zero-knowledge price oracle on Mina and Zeko devnets.

- Built and operated the oracle solo for two years: 10 assets, 20+ providers, signed aggregation every 10 minutes, o1js recursive proofs, Merkle-committed state and a published client SDK.
- Implemented Pallas-curve Schnorr verification in Solidity for EVM authentication of Mina-signed data; integrated LayerZero IzRead to relay verification state from Arbitrum to Ethereum.
- Built Fizk's (formerly zkUSD) signed price-provider service for a separate Mina stablecoin: Dockerized Node.js, multi-provider feeds, Redis monitoring and DNS-over-HTTPS failover.

Elemental Blockchain

Smart Contract & Full-stack Engineer (contract) | Mar 2023 - Feb 2024 | Remote

- Authored POP! Protocol's Solidity Trading and ERC-721 Positions contracts and trading interface; settled sequencer-signed orders on-chain with ECDSA verification for a testnet perpetuals DEX.
- Led contributions to EBSS on Polygon: built the frontend and The Graph event index, and extended escrow contracts with tokenized invoice claims.
- Solo-built Struction, a Sepolia real-estate prototype with ERC-1155 ownership, eligibility controls, dividends, The Graph indexing and a Next.js investor/admin app.

TECHNICAL SKILLS

Contracts & protocols: Rust, Anchor, Solidity, SPL tokens, PDAs/CPI, ERC-20, ERC-721, ERC-1155, UUPS upgrades, perpetual futures, funding rates, liquidations, vault accounting

Backend & product: TypeScript, Node.js, Python, PostgreSQL, Redis, REST/WebSocket APIs, Docker, Next.js, React, The Graph

Security & infrastructure: Smart contract security, LiteSVM, Foundry/Hardhat, fuzz and invariant testing, audit remediation, oracles, keepers, Yellowstone gRPC, Jito, RPC operations, verifiable builds, DAO governance, o1js zero-knowledge proofs

SELECTED PROJECTS

Casper Draw. Casper mainnet. Built Rust/Odra lottery contracts and backend with commit-reveal randomness, payout odds, reserve/holdback accounting and a TypeScript event indexer.

Bonding-curve launchpad. Arbitrum Sepolia, 2026. Built Solidity token-sale contracts with isolated reserves and permissionless liquidity migration to Uniswap V2; regression tests cover donation, rounding and pool-collision failures.

pErp-man. CreditCoin testnet, 2026. Primary contributor: deployed 15 contracts (10 UUPS-upgradeable) for commodity perpetuals, with DAO ownership handoff and a PostgreSQL settlement keeper.

Elekind / Gaj Dastak. Celeron IT Solutions, co-founder. Built device software, trained thermal/YOLOv8 detection models and integrated alerts for an elephant-deterrence unit deployed with the Chhattisgarh Forest Department.

SearchLeads. Client delivery, 2025. Built Stripe billing for credit, subscription and hybrid plans, prorated upgrades and Redis-backed webhook deduplication and ordering.

EDUCATION & TRAINING

B.Sc. Physical Sciences with Computer Science

Hansraj College, University of Delhi | 2019 - 2022 | CGPA: 8.9/10

Zero-Knowledge Bootcamp, Encode Club (Q4 2023) · zkIgnite Cohort 2, Mina Foundation (2023): Doot selected for funding