

SHUBHAM TIWARI

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Summary

Blockchain engineer building real-world-asset platforms end to end: Solidity contracts, custom Reth PoA chains, and the Go/TypeScript services around them. Lead engineer on three production RWA products at Qoneqt. 178 merged PRs on GitHub, 31 across six DefiLlama repos. Six paid hackathon wins across FHE, ZK and payments.

Experience

Qoneqt (Human Quotient Pvt Ltd)

Blockchain Engineer

Remote

April 2025 to Present

- Lead engineer on the company's three RWA products: **Maha Fraxn** (fractional RWA exchange), **mahaDELTA** and **Propexty** (tokenized land registries). 1,400+ commits and over 98% of each codebase across Solidity, Go, TypeScript and React.
- Built land tokenization on **ERC-3643**: settlement through a permissioned on-chain registry via an outbox engine, EIP-712 signed Planning Authority approvals, and district-scoped land releases and redemptions.
- Each platform runs on its own **custom Reth PoA chain** with embedded Blockscout explorer, faucet and contract verification; six turborepos per product (trading, super admin, Planning Authority, explorer, faucet, verify) on shared Postgres and Redis.
- Shipped the admin and authority consoles: cross-district release views, KYC review, trade monitoring with exports, fee statistics, and on-chain audit trails keyed by bytes32 listing IDs.
- Also on Maha Fraxn: i18n across all 22 Indian scheduled languages, Subgraph plus fallback Node.js indexer (2s to sub-200ms queries), and gasless EIP-712/EIP-2771 flows that removed 60%+ onboarding drop-off.

Attenomics Labs

Solidity Engineer

Remote

Feb 2025 to Present

- Wrote end-to-end test suites across the full contract surface (reentrancy, access control, overflows, storage collisions) and audited proxy/UUPS upgrades for storage layout conflicts and initialization bugs.
- Built internal tooling to flag front-running, MEV sandwiches, and price manipulation in pending tx flows.

Technologies & Open Source

- Blockchain & EVM:** Solidity, Foundry, Hardhat, Viem, Wagmi, Ethers.js, ERC-3643, Reth, Avalanche Subnets, EVM internals
- Privacy:** FHE (Zama FHEVM, Fhenix CoFHE, Inco Lightning), ZK (Aleo/Leo), sealed-bid auctions, confidential payments
- Languages & Infra:** Rust, Go, TypeScript, Node.js, Next.js, AWS, Docker, Kubernetes, Cloudflare Workers
- Open Source:** 178 merged PRs, 31 across six DefiLlama repos: rebuilt dead adapters from on-chain data (SmarDex, Kava Swap), fixed Hyperliquid perp fee double-counting and mispriced Uniswap v4 volume on Robinhood Chain. Also merged in foundry-rs/book, Starknet Quest (Rust API perf), witnet/elliptic-curve-solidity.

Projects & Hackathon Wins

Sigill, sigill.store

Fhenix CoFHE Builder Waves, 850 USDT won

- Private FHE checkout on Base Sepolia: encrypted product IDs and amounts, confidential cUSDC escrow, and AES-wrapped gift-card codes only the buyer can unseal.

SilentBid, Github

Aleo Privacy Buildathon Winner, 178 USDT

- Sealed-bid ZK auctions on Aleo testnet: commit-reveal BHP256 commitments with uniform max-bid escrow so bids leak nothing; Chainlink CRE variant for Uniswap CCA launches.

x402 Sessions, npm

x402 Buildathon, 200 USDC won

- Sign-once settle-many x402 micropayments: TypeScript SDK on npm, hosted facilitator, confidential Solana variant on Inco Lightning.

Custom-reth-chain, Github

Rust, Solidity, Docker

- Full PoA blockchain on Reth, EVM-compatible through Prague: consensus validation, signer-key block production, on-chain governance; 194 passing tests. Now the base of the chains running in production at Qoneqt.

Other wins: FomoWallet (EthIndia 2024, 350 USDC, Graph Top 10, Excellence in Privacy), AutoFund AI & MarketMind (SoSoValue Buildathon, 100+ USDT each), StealthPass (UNFOLD 2024 Avalanche track winner).

Education

Lokmanya Tilak College of Engineering, B.E. Computer Engineering, 8.6 GPA

Mumbai, May 2025