

SENIOR BLOCKCHAIN DEVELOPER

ROPSTAM SOLUTIONS

EVM · DeFi · NFT

Senior Blockchain Developer at Ropstam Solutions —
writing and deploying smart contracts across EVM chains,
integrating with React.js frontends and Node.js backends.
Delivered across multiple client products spanning DeFi
protocols, NFT platforms, and astrology-based Web3
applications.

EVM

MULTI-CHAIN

Full

STACK DELIVERY

DeFi

& NFT PRODUCTS

Contracts, integrations, and shipped client products.

Hired as a Senior Blockchain Developer at Ropstam Solutions, a software house delivering client products across DeFi, NFT, and Web3. Worked across the full stack — writing and auditing Solidity smart contracts, integrating them with React.js frontends and Node.js backends, and deploying across multiple EVM chains.

Delivered across three distinct client products: Tug Finance (DeFi protocol), Tangible Tokens (NFT + Shopify integration), and The Ratio (astrology-based NFT platform). Each required different contract architecture, integration patterns, and chain considerations — building genuine breadth across the EVM ecosystem.

THE ROLE

Senior hire at an agency delivering real client products. Each project required owning the full technical scope — from contract design and deployment to frontend integration and backend wiring. No handholding. Multiple concurrent client timelines. Full-stack blockchain delivery across ERC-20, ERC-721, and ERC-1155 standards on Ethereum and L2 EVM chains.

EVM

Multi-chain deployments across Ethereum and L2 networks.

Full

Stack ownership across contracts, backend, and frontend.

DeFi

and NFT products delivered across multiple clients.

Three products. Three different problems.

Tug Finance

DEFI PROTOCOL — PANCAKESWAP & UNISWAP

Tug Finance is a DeFi protocol that lets users bet on the price movement of two paired tokens (a "tug"), earning a percentage share of the pool based on which side wins. Built the smart contract enabling the betting mechanics and pool distribution logic. Integrated Pancakeswap and Uniswap protocols to provide liquidity and control the demand/supply of the Tug token. Set up dynamic price tables updating in real time and calculating user shares. Used theGraph and Multi-Calls to make on-chain data retrieval fast enough to feel like a standard web app — not a blockchain product. Worked across backend, frontend, and smart contract layers end-to-end.

Tangible Tokens

NFT PLATFORM — MULTI-CHAIN + SHOPIFY INTEGRATION

Tangible Tokens is an NFT platform that allows users to fetch their NFTs from multiple chains and print them on physical merchandise. Built the full React.js frontend and Node.js backend for the platform, along with the Web3 calls to fetch NFTs cross-chain. The key engineering challenge: integrating a Shopify storefront with a custom Web3 solution — pulling live NFT data per wallet, mapping it to purchasable merchandise options, and connecting the ordering pipeline. Deployed ERC-721 and ERC-1155 contracts for the platform and handled multi-chain wallet connectivity.

The Ratio

ASTROLOGY NFT — ERC-721 STAR TWIN PLATFORM

The Ratio is an astrology platform that matches users to their celebrity "astro twin" based on their Sun, Moon, and Rising sign combination — using big data, statistics, and AI. Built an ERC-721 smart contract giving each user a unique, non-fungible NFT representing their personal astro twin — minted based on their birth chart combination. Each NFT is one-of-a-kind: the token metadata encodes the user's Sun and Moon sign pairing, making it a verifiably unique on-chain identity tied to their astrology. Integrated the contract with the platform frontend and handled the minting flow end-to-end.

What I built across the stack.

01

Smart Contract Development

Wrote, tested, and deployed smart contracts across EVM chains for three distinct client products. Worked across ERC-20 (token standards), ERC-721 (unique NFTs), and ERC-1155 (multi-token) standards. Optimised contracts for minimal gas — using efficient storage patterns, batching

02

DeFi Protocol Integration

Integrated Pancakeswap and Uniswap protocols into Tug Finance to provide liquidity and control token demand/supply mechanics. Implemented pool-based reward distribution logic and dynamic price tables that calculated user shares in real time across the protocol.

03

On-Chain Data Optimisation

Used theGraph (a blockchain indexing protocol) and Multi-Calls to make on-chain data retrieval fast and efficient. Instead of making dozens of individual RPC calls, batched them and indexed events — making the Tug Finance frontend feel as responsive as a standard web application despite

04

Multi-Chain NFT Platform

Built the full frontend and backend for Tangible Tokens — a platform that fetches NFTs from multiple chains per wallet. Handled wallet connectivity across chains, NFT metadata parsing, and the custom Shopify integration that connected digital NFT assets to physical merchandise ordering.

05

ERC-721 Astrology NFT — The Ratio

Built a custom ERC-721 smart contract for The Ratio that generates a unique NFT for each user based on their Sun and Moon sign combination. Each token is one-of-a-kind — the metadata encodes the user's personal astrology, making it a verifiably unique on-chain identity tied to their birth chart.

06

Full-Stack Integration

Every project required owning the full integration layer — Solidity contracts on-chain, Node.js backend handling business logic and API routes, and React.js frontend connecting wallet, contract, and UI. Delivered complete, production-ready systems across all three products.

What made this hard.

01 Making On-Chain Data Feel Fast

Blockchain data is slow by nature — every RPC call has latency, and complex DeFi frontends typically require dozens of them. For Tug Finance, used theGraph to index on-chain events and Multi-Calls to batch multiple contract reads into a single call. The result: a DeFi frontend that loaded and updated as fast as a standard web app, without sacrificing decentralisation or real-time accuracy.

02 Bridging NFTs to Physical Commerce (Tangible Tokens)

The core challenge at Tangible Tokens was connecting a Web3 NFT wallet to a Web2 Shopify store — two systems that don't speak the same language. Built a custom middleware layer that fetched live NFT data per wallet across multiple chains, matched assets to available merchandise SKUs, and fed the result into the Shopify ordering pipeline. Required understanding both ecosystems deeply enough to bridge them cleanly.

03 Unique Identity via NFT — The Ratio

The challenge at The Ratio was making each NFT genuinely unique and meaningful — not just a numbered copy in a collection, but a personalised on-chain identity. Designed the ERC-721 contract so that token metadata encodes each user's specific Sun and Moon sign combination. No two tokens with the same combination can exist — making it a verifiable, one-of-a-kind digital identity tied to the user's birth chart.

04 Gas Optimisation Across Multiple Contracts

Every contract deployment and interaction costs real money. Across all three projects, applied gas optimisation techniques: efficient storage packing, minimising on-chain computation by pushing logic off-chain where possible, batching transactions, and using ERC-1155 multi-token standard instead of multiple ERC-721 contracts where the use case allowed — reducing deployment and interaction costs significantly.

05 Full-Stack Ownership Across Multiple Client Timelines

As a senior developer at an agency, each project had its own client, timeline, and technical requirements. Managed concurrent delivery across three products — owning contract, backend, and frontend layers on each — without a dedicated product manager or clear handoffs. Required strong self-organisation, clear communication with clients, and disciplined context-switching.

*Every project was different — different chain, different standard, different client.
That variety is what made it a real education in blockchain engineering.*

What shipped.

Tug Finance — Live DeFi Protocol

Full DeFi protocol delivered: Pancakeswap/Uniswap integrations, betting pool mechanics, dynamic price tables, and an optimised frontend using theGraph and Multi-Calls.

Tangible Tokens — NFT to Merchandise

Multi-chain NFT platform live — fetch any NFT from any supported chain, print it on merchandise, order through Shopify. Custom Web3-to-Web2 bridge built end-to-end.

The Ratio — Astrology NFT Identity

ERC-721 contract deployed giving each user a unique NFT based on their Sun and Moon sign combination — a personalised, verifiable on-chain identity tied to their birth chart.

Full-Stack Delivery Across All Three

Every product delivered across the complete stack: Solidity contracts, Node.js backend, React.js frontend, and Web3 wallet integration — no layer handed off to another team.

Gas-Optimised Contract Architecture

Applied optimisation across every contract — storage packing, off-chain logic, batched reads, and standard selection — reducing deployment and interaction costs.

EVM Multi-Chain Experience

Deployed and integrated across Ethereum mainnet and L2 EVM chains. Handled chain-specific quirks, wallet connectivity, and multi-chain NFT fetching in production.

Contracts to client. *Full stack. Every time.*

Three products, three different technical problems, three complete deliveries. Ropstam was where blockchain engineering became second nature.

WAHAJ HAIDER - SENIOR BLOCKCHAIN DEVELOPER

Smart Contract Development

EVM Chains

DeFi Protocols

NFT Platforms

Full-Stack Blockchain