



TokenFlow Case Studies

A Deep Dive into TokenFlow's Effective Solutions



The following is a list of some of the problems we solved for our clients



Avix Finance is a permissionless tokenized volatility DeFi protocol designed to track the price of VIX on-chain.

Problem:

A client had vulnerabilities in their existing vault contracts and an average test coverage of 74%, resulting in potential security breaches and risks. Also, the contracts were not gas-efficient and supported only AVAX as a form of collateral.



Avix Finance

Tokenized volatility
DeFi protocol designed
to track the price of VIX
on-chain

Our Proposed Solution:

We increased test coverage to 100% and identified and resolved exploits in their vault contracts, which were due to previous contract parameter misconfiguration and poorly written code.



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The enhanced code resulted in reduced risks and potential security breaches for the client. Also, we introduced the ERC20-compliant version of the vault contracts, which enabled client to use USDT, USDC, DAI, WETH and WBTC as forms of collateral for the derived VIX (dVIX) token.



Long Term Finance

LongTerm Finance is a tokenized index fund protocol designed to track the market capitalization of the entire altcoin market.

Problem:

The LongTerm Finance protocol needed a robust and reliable method to fetch and integrate real-time market capitalization data of the entire altcoin market for its ALTS token, ensuring the system's decentralization and avoiding any single point of failure. This was a key pain point stopping the team from the full mainnet launch.



LongTerm Finance

Tokenized index
fund DeFi protocol
tracking the market cap
of the entire
altcoin market

Built on



Our Proposed Solution:

We created a custom oracle solution for the ALTS token (the token tracking the entire altcoin market's market cap, and a company's flagship product), which we integrated directly with the existing smart contracts comprising the protocol.

The proposed oracle solution was based on the Chainlink's tech stack, and ensures the protocol's trustlessness and censorship-resistant properties, without a single point of failure.



MAJR, Inc. (Part 1)

MAJR is a web3 media company and a DAO focused on the creator memberships and community digital asset accumulation.

Problem:

MAJR, Inc., a pioneering web3 media company, faced challenges in smart contract gas efficiency and security for its DAO and other important smart contracts (which were already live on the mainnet at the time), leading to potential transaction failures that were experienced by the users, and concerns about the overall code integrity during rigorous third-party audits.



Our Proposed Solution:

We were able to find multiple ways to optimize the contract logic, resulting in more efficient and more secure code and avoiding out-of-gas exceptions and other bugs that could cause the transaction to revert

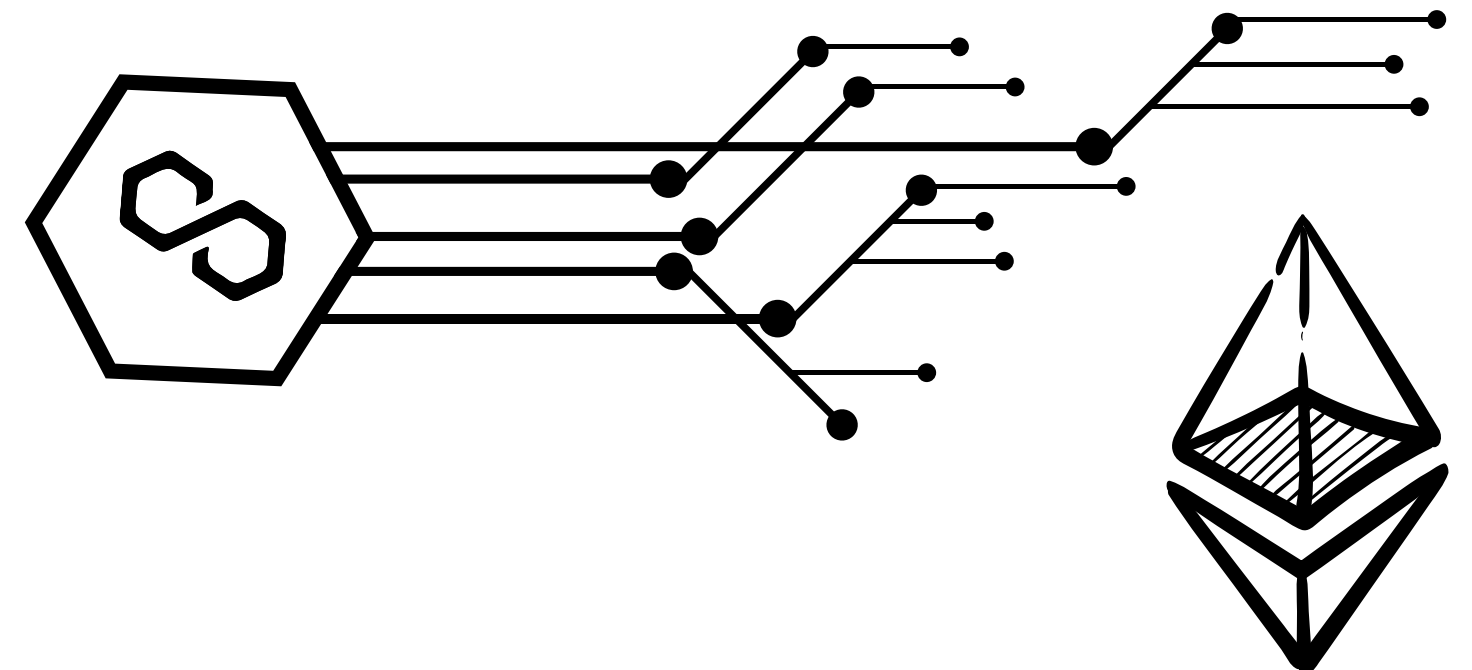
Also, we supported the client during the entire process of the smart contract audit, which was conducted by Hacken, and the final result was an exceptional score of 9.6 out of 10, with no critical bugs being found.



MAJR, Inc. (Part 2)

Problem:

After the previous improvements in regards to the smart contract security and gas efficiency, the client still faced the issue of the majority of users being priced out from using the protocol due to it being deployed on the Ethereum mainnet only.



Our Proposed Solution:

We deployed the platform (including all of the necessary DAO and related contracts) on various alternative layer 1 and layer 2 blockchain networks like Polygon, Avalanche and Fantom (which were picked by the client after thorough consultations with us) and further optimized the contract logic itself to lower gas costs even further.

Also, since the native token of the protocol needed to be available on all of the 8 newly chosen blockchains, we proposed a solution in the form of an omnichain fungible token (OFT), which is an omnichain interoperable token standard designed by LayerZero Labs.

"Every once in a while, a new technology, an old problem, and a big idea turn into an innovation."

– Dean Kamen

Turn Your Vision Into Reality

We love challenges and are always eager to help you out!

Partner with TokenFlow and unlock significant cost savings while ensuring the quality and security of your smart contracts.



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