

# SMART CONTRACT AUDIT

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PREPARED FOR

**AUSTRALIAN CRYPTO COIN GREEN** 



## **INTRODUCTION**

Auditing Firm	InterFi Network
Client Firm	Australian Crypto Coin Green
Methodology	Automated Analysis, Manual Code Review
Language	Solidity
Contract	0xD436F4f4F309f3eeC38b3307lCcC7l15630a1F1C
Blockchain	Binance Smart Chain
Centralization	Active ownership
Commit AUDIT REPORT CONFI	475ecb0de0ae3d8b526419097150224090b46be4 INTERF INTERF
Website	https://accoin.com.au/
Telegram	https://t.me/Accoinaus/
Facebook	https://www.facebook.com/accoinaus/
Twitter	https://twitter.com/AccoinCrypto/
Report Date	September 07, 2023

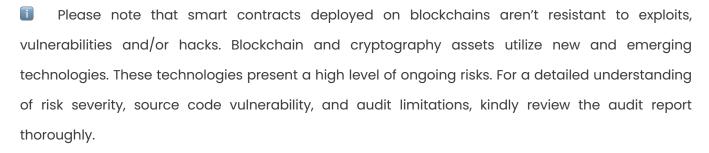
I Verify the authenticity of this report on our website: <a href="https://www.github.com/interfinetwork">https://www.github.com/interfinetwork</a>



## **EXECUTIVE SUMMARY**

InterFi has performed the automated and manual analysis of solidity codes. Solidity codes were reviewed for common contract vulnerabilities and centralized exploits. Here's a quick audit summary:

Status	Critical	Major 🛑	Medium 🛑	Minor	Unknown
Open	1	0	1	8	0
Acknowledged	1	0	1	1	1
Resolved	0	1	0	0	0
ACCG Property Token  Important Privileges  Mint, Finalize, Self-Destruct, Withdraw Excess Eth, Withdraw Excess Token,  Vest Tokens					
ACCG Token	Token Destroy Property Token, Finalize Property, Pause Contract, Withdraw				
Important Privileges	Excess Eth, Withdraw Excess Token				



Please note that centralization privileges regardless of their inherited risk status - constitute an elevated impact on smart contract safety and security.



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## **SCOPE OF WORK**

InterFi was consulted by Australian Crypto Coin Green to conduct the smart contract audit of their solidity source codes. The audit scope of work is strictly limited to mentioned solidity file(s) only:

- o ACCG.sol
- If source codes are not deployed on the main net, they can be modified or altered before mainnet deployment. Verify the contract's deployment status below:

Public Contract Link					
https://bscscan.com/address/0xD436F4f4F309f3eeC38b3307lCcC7ll5630alFlC#code					
Contract Name	ACCG R				
Compiler Version	0.8.18				
License	MIT				



## **AUDIT METHODOLOGY**

Smart contract audits are conducted using a set of standards and procedures. Mutual collaboration is essential to performing an effective smart contract audit. Here's a brief overview of InterFi's auditing process and methodology:

#### CONNECT

 The onboarding team gathers source codes, and specifications to make sure we understand the size, and scope of the smart contract audit.

#### **AUDIT**

- Automated analysis is performed to identify common contract vulnerabilities. We may use the following third-party frameworks and dependencies to perform the automated analysis:
  - Remix IDE Developer Tool
  - Open Zeppelin Code Analyzer
  - SWC Vulnerabilities Registry
  - DEX Dependencies, e.g., Pancakeswap, Uniswap
- Simulations are performed to identify centralized exploits causing contract and/or trade locks.
- A manual line-by-line analysis is performed to identify contract issues and centralized privileges.
   We may inspect below mentioned common contract vulnerabilities, and centralized exploits:

	o Token Supply Manipulation
	o Access Control and Authorization
	o Assets Manipulation
Controlized Evaleite	o Ownership Control
Centralized Exploits	o Liquidity Access
	<ul> <li>Stop and Pause Trading</li> </ul>
	<ul> <li>Ownable Library Verification</li> </ul>



	0	Integer Overflow
	0	Lack of Arbitrary limits
	0	Incorrect Inheritance Order
	0	Typographical Errors
	0	Requirement Violation
	0	Gas Optimization
	0	Coding Style Violations
Common Contract Vulnerabilities	0	Re-entrancy
	0	Third-Party Dependencies
	0	Potential Sandwich Attacks
	0	Irrelevant Codes
	0	Divide before multiply
	FI IN	Conformance to Solidity Naming Guides  Compiler Specific Warnings
	0	Language Specific Warnings

#### **REPORT**

- The auditing team provides a preliminary report specifying all the checks which have been performed and the findings thereof.
- o The client's development team reviews the report and makes amendments to solidity codes.
- o The auditing team provides the final comprehensive report with open and unresolved issues.

#### **PUBLISH**

- o The client may use the audit report internally or disclose it publicly.
- It is important to note that there is no pass or fail in the audit, it is recommended to view the audit as an unbiased assessment of the safety of solidity codes.



## **RISK CATEGORIES**

Smart contracts are generally designed to hold, approve, and transfer tokens. This makes them very tempting attack targets. A successful external attack may allow the external attacker to directly exploit. A successful centralization-related exploit may allow the privileged role to directly exploit. All risks which are identified in the audit report are categorized here for the reader to review:

Risk Type	Definition
Critical •	These risks could be exploited easily and can lead to asset loss, data loss, asset, or data manipulation. They should be fixed right away.
Major	These risks are hard to exploit but very important to fix, they carry an elevated risk of smart contract manipulation, which can lead to high-risk severity.
Medium O	These risks should be fixed, as they carry an inherent risk of future exploits, and hacks which may or may not impact the smart contract execution. Low-risk reentrancy-related vulnerabilities should be fixed to deter exploits.  These risks do not pose a considerable risk to the contract or those who interact
Minor •	with it. They are code-style violations and deviations from standard practices. They should be highlighted and fixed nonetheless.
Unknown	These risks pose uncertain severity to the contract or those who interact with it. They should be fixed immediately to mitigate the risk uncertainty.

All statuses which are identified in the audit report are categorized here for the reader to review:

Status Type	Definition
Open	Risks are open.
Acknowledged	Risks are acknowledged, but not fixed.
Resolved	Risks are acknowledged and fixed.



## **CENTRALIZED PRIVILEGES**

Centralization risk is the most common cause of cryptography asset loss. When a smart contract has a privileged role, the risk related to centralization is elevated.

There are some well-intended reasons have privileged roles, such as:

- o Privileged roles can be granted the power to pause() the contract in case of an external attack.
- Privileged roles can use functions like, include(), and exclude() to add or remove wallets from fees, swap checks, and transaction limits. This is useful to run a presale and to list on an exchange.

Authorizing privileged roles to externally-owned-account (EOA) is dangerous. Lately, centralization-related losses are increasing in frequency and magnitude.

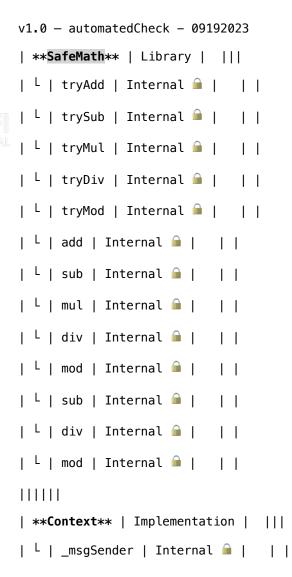
- o The client can lower centralization-related risks by implementing below mentioned practices:
- o Privileged role's private key must be carefully secured to avoid any potential hack.
- Privileged role should be shared by multi-signature (multi-sig) wallets.
- Authorized privilege can be locked in a contract, user voting, or community DAO can be introduced to unlock the privilege.
- Renouncing the contract ownership, and privileged roles.
- o Remove functions with elevated centralization risk.
- Understand the project's initial asset distribution. Assets in the liquidity pair should be locked.

  Assets outside the liquidity pair should be locked with a release schedule.



## **AUTOMATED ANALYSIS**

Symbol	Definition
	Function modifies state
<b>Es</b>	Function is payable
	Function is internal
	Function is private
Ţ	Function is important







```
| **Pausable** | Implementation | Context |||
| L | <Constructor> | Public ! | • | NO! |
| L | paused | Public ! | NO! |
| L | _requireNotPaused | Internal 🗎 | | |
| L | _requirePaused | Internal 🗎 | | |
| └ | _pause | Internal 🗎 | 🔎 | whenNotPaused |
| └ | _unpause | Internal 🗎 | ● | whenPaused |
\Pi\Pi\Pi\Pi
| **Ownable** | Implementation | Context |||
| └ | <Constructor> | Public ! | ● |NO! |
| L | owner | Public ! | NO! |
| L | _checkOwner | Internal 🗎 | | |
| L | renounceOwnership | Public ! | OnlyOwner |
| L | transferOwnership | Public ! | General | onlyOwner |
| L | _transferOwnership | Internal 🗎 | 🔎 | |
\Pi\Pi\Pi\Pi
| **IERC20** | Interface | |||
| L | totalSupply | External ! | NO! |
| L | balanceOf | External ! | NO! |
| L | transfer | External ! | 🛑 |NO! |
| L | allowance | External ! | NO! |
| L | approve | External ! | O | NO! |
| L | transferFrom | External ! | 🔎 |NO! |
| **IERC20Metadata** | Interface | IERC20 |||
| L | name | External ! | NO! |
```



```
| L | symbol | External ! | NO! | | |
| L | decimals | External ! | NO! |
| **ERC20** | Implementation | Context, IERC20, IERC20Metadata |||
| └ | <Constructor> | Public ! | ● |NO! |
| L | name | Public ! | | NO! |
| L | symbol | Public ! | NO! |
| L | decimals | Public ! | NO! |
| L | totalSupply | Public ! | NO! |
| L | balanceOf | Public ! | NO! |
| L | transfer | Public ! | 🛑 |NO! |
| L | allowance | Public ! | NO! |
| L | approve | Public ! | Public ! | | NO! |
| L | transferFrom | Public ! | 🔴 |NO! |
| L | increaseAllowance | Public ! | Public ! | |
| L | decreaseAllowance | Public ! | 🔴 |NO! |
| L | _mint | Internal 🗎 | 🛑 | |
| L | _approve | Internal 🔒 | 🛑 | |
| L | _spendAllowance | Internal 🗎 | 🛑 | |
| L | _beforeTokenTransfer | Internal 🗎 | 🛑 | |
| └ | _afterTokenTransfer | Internal 🗎 | 🛑 | |
| **ACCGPropertyToken** | Implementation | ERC20, Ownable |||
| └ | <Constructor> | Public ! | ● | ERC20 |
| L | setNewManager | External ! | 🔴 | onlyManager |
| L | totalVested | Public ! | NO! |
```



```
| L | vestedBalanceOf | Public ! | NO! | |
| L | vestingStart | Public ! | NO! |
| └ | vestTokens | Public ! | ● | onlyManager |
| L | claimVestedTokens | Public ! | • | nonReentrant |
| L | mint | Public ! | 🔴 | onlyOwner |
| └ | burn | Public ! | ● | onlyOwner |
| L | withdrawExcessEth | Public ! | Good | onlyOwner |
| L | withdrawExcessToken | Public ! | Gentlement | onlyOwner |
| L | finalize | Public ! | 🔎 | onlyOwner |
| L | selfDestruct | Public ! | 🔘 | onlyOwner |
111111
| **IPriceFeed** | Interface | |||
| L | decimals | External ! | NO! |
\Pi\Pi\Pi\Pi
| **IUniswapV2Router02** | Interface | |||
| L | getAmountsOut | External ! | NO! |
| L | WETH9 | External ! | | NO! |
\Pi\Pi\Pi\Pi
| **ACCG** | Implementation | Ownable, Pausable, ERC20 |||
| L | setBNBPriceFeed | External ! | Getail | onlyOwner |
| L | setAccPriceFeed | External ! | Getally | onlyOwner |
| └ | setIsLivePriceOn | Public ! | ● | onlyOwner |
| └ | createPropertyToken | Public ! | ● | onlyOwner nonReentrant |
| L | getACCLivePrice | Public ! | NO! |
| L | getBNBLivePrice | Public ! | NO! |
| L | getACCGPrice | Public ! | NO! |
```

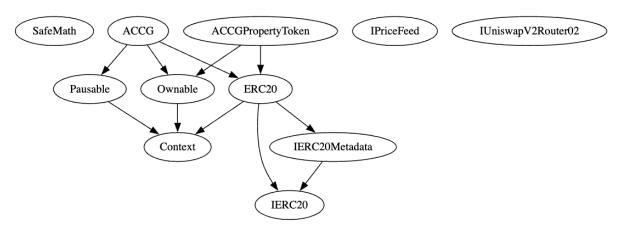








## **INHERITANCE GRAPH**







## **MANUAL REVIEW**

Identifier	Definition	Severity
CEN-01	Centralized privileges	
CEN-07	Authorizations and access control	
CEN-05	Privileged role pauses ACCG smart contract	Critical 🔵
ACC-01	Privileged role calls selfDestruct to destroy contracts and withdraw funds in ACCGPropertyToken and ACCG contracts	

Important only0wner centralized privileges are listed below:

```
mint()
burn()
withdrawExcessEth()
withdrawExcessToken()
finalize()
selfDestruct()
setBNBPriceFeed()
setAccPriceFeed()
setIsLivePriceOn()
createPropertyToken()
pause()
unpause()
withdrawExcessEth()
withdrawExcessToken()
destroyPropertyToken()
finalizeProperty()
burnPropertyToken()
onlyManager access control is provided to:
```



setNewManager()
vestTokens()



#### **RECOMMENDATION**

Deployers, contract owners, administrators, access controlled, and all other privileged roles' private-keys/access-keys/admin-keys should be secured carefully. These entities can have a single point of failure that compromises the security of the project. Manage centralized and privileged roles carefully, review PAGE 09 for more information.

<u>Implement multi-signature wallets:</u> Require multiple signatures from different parties to execute certain sensitive functions within contracts. This spreads control and reduces the risk of a single party having complete authority.

<u>Use a decentralized governance model:</u> Implement a governance model that enables token holders or other stakeholders to participate in decision-making processes. This can include voting on contract upgrades, parameter changes, or any other critical decisions that impact the contract's functioning.

#### **ACKNOWLEDGEMENT**

ACC team has argued that privileged roles are used as intended, and accepted to use multi-signature wallets to manage centralization wherever possible.



Identifier	Definition	Severity
ACC-03	Use of selfDestruct in ACCGPropertyToken and ACCG contracts	Critical 🔵

selfDestruct() destroys smart contracts and transfers all remaining balance to the provided address.

Below mentioned functions use selfDestruct() directly or indirectly:

finalize()
destroyPropertyToken()
finalizeProperty()

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#### **RECOMMENDATION**

Remove selfDestruct() – as it deliberately destroys smart contracts.



Identifier	Definition	Severity
CEN-02	Initial asset distribution in ACCGPropertyToken and ACCG contracts	Minor •
CEN-11	Asset mint in ACCGPropertyToken contract	WIII IOI

All of initially minted assets are sent to msg.sender when deploying contracts. This can be an issue as deployer can distribute tokens without consulting the community.

```
contract ACCGPropertyToken is ERC20, Ownable {
    _mint(msg.sender, initialSupply);

function mint(address _receiver, uint256 _amount) public onlyOwner {
    _mint(_receiver, _amount);
}
```



```
contract ACCG is Ownable, Pausable, ERC20 {
   constructor() ERC20("ACCG", "ACCG") {
      _mint(msg.sender, 100000000000000 * 1e18);
```



#### **CEN-02 RECOMMENDATION**

Project must communicate with stakeholders and obtain the community consensus while distributing assets.

#### **CEN-11 RECOMMENDATION**

Declare and lock total asset supply. Access to mint function negatively elevates centralization risk.



Identifier	Definition	Severity
LOG-01	Lack of adequate checks in ACCGPropertyToken and ACCG contracts	Medium 🔵

Below mentioned functions should be provided adequate require checks:

createPropertyToken() - No limit on how much fees can be charged. Limit maximum fees to be charged.

purchasePropertyToken() – No access control, meaning anyone can call it. Use appropriate access control, e.g., onlyAuthorized.

claimVestedTokens() — No access control, meaning anyone can call it. Use appropriate access control, e.g., onlyAuthorized.

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#### **RECOMMENDATION**

These functions should be provided appropriate adequate require checks.

#### **ACKNOWLEDGEMENT**

ACC team has argued that functions like purchasePropertyToken() and claimVestedTokens() should be callable by anyone as per logic design.



Identifier	Definition	Severity
LOG-02	Note regarding front-running	Minor •

Smart contract doesn't have any explicit mechanisms like slippage control or transaction ordering protection to prevent front-running attacks. In token contract, this is a significant issue. Anyone watching the mempool can potentially front-run an operation to gain some advantage.

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#### **NOTE**

Without explicit measures to control transaction ordering, miners or users may potentially manipulate the order of transactions for their benefit.



Identifier	Definition	Severity
LOG-03	Re-entrancy in ACCGPropertyToken and ACCG contracts	Major 🔵

Below mentioned function is used without re-entrancy guard:

claimVestedTokens()
purchasePropertyToken()

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#### **RECOMMENDATION**

Use Checks Effects Interactions pattern when handing over the flow to an external entity and/or guard functions against re-entrancy attacks. Re-entrancy guard is used to prevent re-entrant calls.

#### **RESOLUTION**

ACC team has added re-entrancy guard to above mentioned functions.



Identifier	Definition	Severity
COD-02	Timestamp manipulation via block.timestamp in ACCGPropertyToken and ACCG contracts	Minor

Be aware that the timestamp of the block can be manipulated by a miner. Smart contracts rely on block.timestamp for determining when vest started and claimed. Miners have some degree of control over this value, which could lead to minor manipulations.

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#### **RECOMMENDATION**

To maintain block integrity, scale time dependent events accordingly.



Identifier	Definition	Severity
COD-06	Unknown accounts and contracts in ACCG contract	Minor •

Below mentioned 0x are found in smart contracts:

address public bnbPriceFeed = 0xd0D5e3DB44DE05E9F294BB0a3bEEaF030DE24Ada; address public accPriceFeed = 0x7d7356bF6Ee5CDeC22B216581E48eCC700D0497A;

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#### **RECOMMENDATION**

Dependencies on malicious externally owned accounts and contracts can introduce vulnerabilities.

Only interact with trusted accounts and contracts.



Identifier	Definition	Severity
COD-10	Direct and indirect dependencies in <b>ACCGPropertyToken</b> and <b>ACCG</b> contracts	Unknown •

Smart contracts are interacting with third party protocols e.g., Price Feeds, Market Makers, Base Token, Web 3 Applications, Uniswap and Open Zeppelin tools. The scope of the audit treats these entities as black boxes and assumes their functional correctness. However, in the real world, all of them can be compromised, and exploited. Moreover, upgrades in these entities can create severe impacts, e.g., increased transactional fees, deprecation of previous routers, etc.

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#### **RECOMMENDATION**

Inspect third party dependencies regularly, and mitigate severe impacts whenever necessary.

#### **ACKNOWLEDGEMENT**

ACC team will inspect third party dependencies regularly, and push updates as required.



Identifier	Definition
COD-13	Note regarding flash loan vulnerabilities

Smart contract does not interact with external contracts for token swapping or lending, so it is less susceptible to flash loan attacks, which usually exploit some form of arbitrage opportunity. However, if smart contract interacts with malicious contract, technically flash loan vulnerabilities can be introduced.

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#### **NOTE**

Due to the interconnected nature of DeFi contracts, smart contracts can be exploited using another malicious contract. Be cautious while interacting with third-party contracts, tokens, and protocols.



Identifier	Definition	Severity
COD-12	Lack of event-driven architecture in ACCGPropertyToken and ACCG contracts	Minor •

Smart contracts use function calls to update state, which can make it difficult to track and analyze changes to the contract over time.

#### **ACCGPropertyToken**

```
setNewManager()
mint()
burn()
withdrawExcessEth()
withdrawExcessToken()
finalize()
selfDestruct()
```

#### ACCG

```
setIsLivePriceOn()
purchasePropertyToken()
pause()
unpause()
withdrawExcessEth()
withdrawExcessToken()
destroyPropertyToken()
finalizeProperty()
burnPropertyToken()
```

#### **RECOMMENDATION**

Use events to track state changes. Events improve transparency and provide a more granular view of contract activity.





Identifier	Definition	Severity
VOL-01	Unchecked return values in ACCGPropertyToken and ACCG contracts	Minor •

Calls \_token.transfer and transfer are used without checking their return values, which should be true for a successful transaction.

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#### **RECOMMENDATION**

Check return values to validate if calls are successful or not.



Identifier	Definition	Severity
VOL-02	Irrelevant code in ACCGPropertyToken contract	Minor •

Redundant code in:

 $\verb|contract|| \textbf{ACCGPropertyToken}|$ 

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#### **RECOMMENDATION**

Smart contract **ACCGPropertyToken** is in the code, but is not properly deployed. Remove redundant code, or use interface instead of the contract.



Identifier	Definition	Severity
VOL-03	Volatile code in ACCGPropertyToken and ACCG contracts	Medium 🔵

#### **ACCGPropertyToken**

- There is no way to update baseToken, making it immutable once set. If the baseToken is compromised or deprecated, it can't be changed.
- \_transfer function doesn't check whether the contract has enough tokens to transfer. This could result in a failed transaction.

#### ACCG

- createPropertyToken() has a large number of parameters and local variables, which could cause 'Stack too deep' error.
- In purchasePropertyToken, there's no validation to check whether propertyId exists or not.
- Multiplying latestAnswer() by 1e18 and then dividing by 10 times

  IPriceFeed(accPriceFeed).decimals logic is unclear, especially when decimals of two different price feeds are being used interchangeably.

## INTER

#### **RECOMMENDATION**

Fix non-conforming logic.



Identifier	Definition	Severity
VOL-04	Possible integer underflow in ACCGPropertyToken and ACCG contracts	Minor •

- In vestTokens function, \_totalVested = \_totalVested tokens; can lead to underflow if \_totalVested is less than tokens.
- In burnPropertyToken function, amount to be burned is not checked against the user's balance,
   which may lead to underflows.





#### **RECOMMENDATION**

Make sure above calculations does not cause underflow.



Identifier	Definition	Severity
COM-04	Unbounded loops in ACCG contract	Minor •

#### ACCG

getACCGPrice() calls itself recursively when isLivePriceOn is false, leading to infinite recursion and out-of-gas error.

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#### **RECOMMENDATION**

Fix infinite recursion in getACCGPrice().



## **DISCLAIMERS**

InterFi Network provides the easy-to-understand audit of solidity source codes (commonly known as smart contracts).

The smart contract for this particular audit was analyzed for common contract vulnerabilities, and centralization exploits. This audit report makes no statements or warranties on the security of the code. This audit report does not provide any warranty or guarantee regarding the absolute bug-free nature of the smart contract analyzed, nor do they provide any indication of the client's business, business model or legal compliance. This audit report does not extend to the compiler layer, any other areas beyond the programming language, or other programming aspects that could present security risks. Cryptographic tokens are emergent technologies, they carry high levels of technical risks and uncertainty. You agree that your access and/or use, including but not limited to any services, reports, and materials, will be at your sole risk on an as-is, where-is, and as-available basis. This audit report could include false positives, false negatives, and other unpredictable results.

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## **ABOUT INTERFI NETWORK**

InterFi Network provides intelligent blockchain solutions. We provide solidity development, testing, and auditing services. We have developed 150+ solidity codes, audited 1000+ smart contracts, and analyzed 500,000+ code lines. We have worked on major public blockchains e.g., Ethereum, Binance, Cronos, Doge, Polygon, Avalanche, Metis, Fantom, Bitcoin Cash, Velas, Oasis, etc.

InterFi Network is built by engineers, developers, UI experts, and blockchain enthusiasts. Our team currently consists of 4 core members, and 6+ casual contributors.

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SMART CONTRACT AUDITS | SOLIDITY DEVELOPMENT AND TESTING RELENTLESSLY SECURING PUBLIC AND PRIVATE BLOCKCHAINS