



# SPYWOLF

## Security Audit Report

### TESTNET



Audit prepared for  
**Pulsar**

Completed on  
**April 26, 2025**

@SPYWOLFNETWORK



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# OVERVIEW

This goal of this report is to review the main aspects of the project to help investors make an informative decision during their research process.

You will find a a summarized review of the following key points:

- ✓ Contract's source code
- ✓ Owners' wallets
- ✓ Tokenomics
- ✓ Team transparency and goals
- ✓ Website's age, code, security and UX
- ✓ Whitepaper and roadmap
- ✓ Social media & online presence

“

*The results of this audit are purely based on the team's evaluation and does not guarantee nor reflect the projects outcome and goal*

- SPYWOLF Team -

”





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# KEY RESULTS

Cannot mint new tokens	*
Cannot pause trading (honeypot)	PASSED
Cannot blacklist an address	PASSED
Cannot raise taxes over 25%?	PASSED
No proxy contract detected	PASSED
Not required to enable trading	PASSED
No hidden ownership	PASSED
Cannot change the router	PASSED
No cooldown feature found	PASSED
Bot protection delay is lower than 5 blocks	PASSED
Cannot set max tx amount below 0.05% of total supply	PASSED
The contract cannot be self-destructed by owner	PASSED

For a more detailed and thorough examination of the heightened risks, refer to the subsequent parts of the report.

N/A = Not applicable for this type of contract

\*New tokens can be minted only the minting contract in exchange of dragonX/titanX tokens



# PULSAR



# PULSAR

## PROJECT DESCRIPTION:

### According to their whitepaper:

Pulsar's inception is driven by the need to address prevalent issues in the DeFi space, such as inflationary pressures and the lack of incentivization mechanisms that reward long-term holders. With its Perma-Bull tokenomic nature and unique relationship with TitanX, Pulsar sets out to provide a new paradigm for value generation and retention in the cryptocurrency world.

The token's utility is intricately tied to the TitanX ecosystem, where it serves as a testament to the power of community-driven initiatives and the potential of collaborative financial ecosystems. By enabling users to mint Pulsar through the burning of TitanX, the token not only honors its roots but also contributes to the controlled circulation supply of its progenitor token, fostering a symbiotic environment that benefits stakeholders across both platforms.

**Release Date:** TBA

**Launchpad:** Fairlaunch

**Category:** DeFi

01



# CONTRACT 1 INFO

Token Name	Symbol
Pulsar	PULSAR
Contract Address	
0xf72960Fb725C8188b8F11aA1b6141CcBcF3EBD67	
Network	Language
ETH Sepolia testnet	Solidity
Deployment Date	Contract Type
Oct 02, 2024	Mintable token
Total Supply	Decimals
4,347,815,476	18

## TAXES



## Our Contract Review Process

The contract review process pays special attention to the following:

- ✓ Testing the smart contracts against both common and uncommon vulnerabilities
- ✓ Assessing the codebase to ensure compliance with current best practices and industry standards.
- ✓ Ensuring contract logic meets the specifications and intentions of the client.
- ✓ Cross referencing contract structure and implementation against similar smart contracts produced by industry leaders.
- ✓ Thorough line-by-line manual review of the entire codebase by industry experts.

### Blockchain security tools used:

- OpenZeppelin
- Mythril
- Solidity Compiler
- Hardhat



# SMART CONTRACT STATS

Calls Count	unavailable
External calls	unavailable
Internal calls	unavailable
Transactions count	unavailable
Last transaction time	unavailable
Deployment Date	unavailable
Create TX	unavailable
Owner	unavailable
Deployer	unavailable

# TOKEN TRANSFERS STATS

Transfer Count	unavailable
Total Amount	unavailable
Median Transfer Amount	unavailable
Average Transfer Amount	unavailable
First transfer date	unavailable
Last transfer date	unavailable
Days token transferred	unavailable



# VULNERABILITY ANALYSIS

ID	Title	
SWC-100	Function Default Visibility	Passed
SWC-101	Integer Overflow and Underflow	Passed
SWC-102	Outdated Compiler Version	Passed
SWC-103	Floating Pragma	Passed
SWC-104	Unchecked Call Return Value	Passed
SWC-105	Unprotected Ether Withdrawal	Passed
SWC-106	Unprotected SELFDESTRUCT Instruction	Passed
SWC-107	Reentrancy	Passed
SWC-108	State Variable Default Visibility	Passed
SWC-109	Uninitialized Storage Pointer	Passed
SWC-110	Assert Violation	Passed
SWC-111	Use of Deprecated Solidity Functions	Passed
SWC-112	Delegatecall to Untrusted Callee	Passed
SWC-113	DoS with Failed Call	Passed
SWC-114	Transaction Order Dependence	Passed
SWC-115	Authorization through tx.origin	Passed
SWC-116	Block values as a proxy for time	Passed
SWC-117	Signature Malleability	Passed
SWC-118	Incorrect Constructor Name	Passed





# VULNERABILITY ANALYSIS

ID	Title	
SWC-119	Shadowing State Variables	Passed
SWC-120	Weak Sources of Randomness from Chain Attributes	Passed
SWC-121	Missing Protection against Signature Replay Attacks	Passed
SWC-122	Lack of Proper Signature Verification	Passed
SWC-123	Requirement Violation	Passed
SWC-124	Write to Arbitrary Storage Location	Passed
SWC-125	Incorrect Inheritance Order	Passed
SWC-126	Insufficient Gas Griefing	Passed
SWC-127	Arbitrary Jump with Function Type Variable	Passed
SWC-128	DoS With Block Gas Limit	Passed
SWC-129	Typographical Error	Passed
SWC-130	Right-To-Left-Override control character (U+202E)	Passed
SWC-131	Presence of unused variables	Passed
SWC-132	Unexpected Ether balance	Passed
SWC-133	Hash Collisions With Multiple Variable Length Arguments	Passed
SWC-134	Message call with hardcoded gas amount	Passed
SWC-135	Code With No Effects	Passed
SWC-136	Unencrypted Private Data On-Chain	Passed



# VULNERABILITY ANALYSIS

## NO ERRORS FOUND



# MANUAL CODE REVIEW

---

When performing smart contract audits, our specialists look for known vulnerabilities as well as logical and access control issues within the code. The exploitation of these issues by malicious actors may cause serious financial damage to projects that failed to get an audit in time.

We categorize these vulnerabilities by 4 different threat levels.

## THREAT LEVELS

### High Risk

---

Issues on this level are critical to the smart contract's performance/functionality and should be fixed before moving to a live environment.

### Medium Risk

---

Issues on this level are critical to the smart contract's performance, functionality and should be fixed before moving to a live environment.

### Low Risk

---

Issues on this level are minor details and warning that can remain unfixed.

### Informational

---

Information level is to offer suggestions for improvement of efficacy or security for features with a risk free factor.



# FOUND THREATS

## High Risk

No high risk-level threats found in this contract.

## Medium Risk

No medium risk-level threats found in this contract.

## Low Risk

No low risk-level threats found in this contract.



# FOUND THREATS

## Informational

When WETH amount is higher than 0, WETH spending (approval) should be granted before initiating `addToBurnPool()` function in `BuyAndBurn` contract.

```
function distribute() external {
    IERC20 titanx = IERC20(titanxAddress);
    address buyNBurn = _buyAndBurn();
    titanx.transfer(buyNBurn, toSendToBuyAndBurn);
    toSendToBuyAndBurn = 0;
    uint256 distributableTitanxBalance = titanx.balanceOf(address(this)) - _titanxToCross;
    uint256 halfTitanxBalance = (distributableTitanxBalance * 5_000) / 10_000;
    if (halfTitanxBalance > 0) {
        titanx.transfer(helios, halfTitanxBalance);
        titanx.transfer(dragonx, distributableTitanxBalance - halfTitanxBalance);
        // try IVault(dragonx).updateVault() {} catch (bytes memory b) {}
        dragonx.call(abi.encodeWithSelector(IVault.updateVault.selector));
    }
    // calculate fee amount and verify that it was sent
    BuyAndBurn(payable(buyNBurn)).addToBurnPool{value: address(this).balance}(IERC20(weth).balanceOf(address(this)));
}
```

BuyAndBurn Contract's code:

```
function addToBurnPool(uint256 wethAmount) external payable {
    (uint256 wethToBurn, uint256 wethFees) = _hoistWrapped(wethAmount);
    (uint256 nativeToBurn, uint256 nativeFees) = _hoistNative(msg.value);
    _incrementAccumulated(wethFees + nativeFees);
    emit AddToBurnPool(msg.sender, wethToBurn + nativeToBurn);
}

function _hoistWrapped(uint256 amount) internal returns (uint256 toBurn, uint256 fees) {
    if (amount > 0) {
        weth.transferFrom(msg.sender, address(this), amount);
        // we are assuming that weth is not a tax token
        fees = (amount / 4);
        weth.withdraw(fees);
        toBurn = amount - fees;
    }
}
```



# FOUND THREATS

## Informational

Users can mint Pulsar tokens given that they provide valid signature from current `_priceOperator`.

Total 50% of TitanX amount is minted as Pulsar.

25% Pulsar goes towards Pulsar's contract.

25% Pulsar goes towards user.

```
function mint(
    uint256 titanxAmount,
    uint256 priceDenominator,
    uint256 nonce,
    uint256 deadline,
    bytes calldata signature
) external payable {
    _verifyPriceInfo(priceDenominator, nonce, deadline, signature, _priceOperator);
    // check the fee first
    // old: 6 transfers
    // new: 0 transfers - deferred until buy and burn is desired
    _verifyFee(titanxAmount, priceDenominator);

    (uint256 toBurn, uint256 toDistribute, uint256 toBridge) = _divvy(titanxAmount);
    // 1 transfer TitanX to address(this)
    IERC20(titanxAddress).transferFrom(msg.sender, address(this), toDistribute + toBridge);
    // accumulating "to distribute" is held implicitly by the balance of the remaining titanx tokens
    // 1 burn
    _burnAndEarmarkTitanx(toBurn);
    // 2 mint
    _mintPulsar(titanxAmount);
    // 2 approvals + 2 bridges (transfer with a bunch of operations)
    // new: 2 bridges
    _titanxCross += toBridge;
    emit Mint(msg.sender, titanxAmount, msg.value);
}

function _mintPulsar(uint256 titanxAmount) internal returns (uint256) {
    // mint 25% of titanX amount as pulsar to caller and this contract
    uint256 pulsarAmount = titanxAmount / 4;
    _mint(msg.sender, pulsarAmount);
    _mint(address(this), pulsarAmount);
    return pulsarAmount;
}
```

# CONTRACT 2 INFO

Token Name unavailable	Symbol unavailable
Contract Address 0x3bD84fcdC6b9C28761968174aF0af744A05649d1	
Network ETH Seploia testnet	Language Solidity
Deployment Date Oct 02, 2024	Contract Type Buy and burn interface
Total Supply unavailable	Decimals unavailable

## TAXES



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- Mythril
- Solidity Compiler
- Hardhat



# FOUND THREATS

## High Risk

No high risk-level threats found in this contract.

## Medium Risk

No medium risk-level threats found in this contract.

## Low Risk

No low risk-level threats found in this contract.





# FOUND THREATS

## Informational

Owner can add new genesis address on the place of already existing one.

```
function updateGenesisAddress(address current, address next) external onlyOwner {
    if (_genesisMembers[next] != 0) {
        revert InvalidRecipient();
    }
    _genesisMembers[next] = _genesisMembers[current];
    _genesisMembers[current] = 0;
}
```

Owner can create Pulsar/WETH and Pulsar/TitanX Uniswap V3 pools once.

```
function init(address _pulsarAddress, uint160 initialPulsarWethSqrtPriceX96,
uint160 initialPulsarTitanxSqrtPriceX96) external onlyOwner {
    if (pulsarAddress != address(0)) {
        revert InitStateMismatch();
    }
    pulsarAddress = _pulsarAddress;
    _createPools(initialPulsarWethSqrtPriceX96, initialPulsarTitanxSqrtPriceX96);
}
```

Owner can set burn interval.  
Current limit is 0 sec.

```
function setBurnInterval(uint256 newBurnInterval) external payable onlyOwner {
    burnInterval = newBurnInterval;
}
```



# FOUND THREATS

## Informational

Owner can set burn operator.

```
function setBurnOperator(address burnOperator_) external onlyOwner {  
    _burnOperator = burnOperator_;  
}
```

Owner can set WETH burn limit per interval.  
Current limit is 1 WETH.

```
function setBurnLimitWeth(uint256 newBurnLimit) external payable onlyOwner {  
    burnLimitWeth = newBurnLimit;  
}
```

Owner can set reward percent up to 100%.

```
function setBurnCommitRewardRatio(uint256 newBurnCommitRewardRatio) external payable onlyOwner {  
    burnCommitRewardRatio = newBurnCommitRewardRatio;  
}  
  
function _getAmounts() internal view returns (uint256 wethRemaining, uint256 titanxBalance, uint256 reward) {  
    titanxBalance = titanx.balanceOf(address(this));  
    uint256 wethBalance = weth.balanceOf(address(this));  
    wethRemaining = wethBalance > burnLimitWeth ? burnLimitWeth : wethBalance;  
    reward = (wethRemaining * burnCommitRewardRatio) / 10_000;  
    reward = reward > wethRemaining ? wethRemaining : reward;  
    wethRemaining -= reward;  
    return (wethRemaining, titanxBalance, reward);  
}
```

Owner can set slippage for tokens swaps.

```
function setSlippage(uint256 portionSqrtX96Lower, uint256 portionSqrtX96Upper) external payable onlyOwner {  
    uniswapSlippageSqrtX96Lower = portionSqrtX96Lower;  
    uniswapSlippageSqrtX96Upper = portionSqrtX96Upper;  
}
```



# FOUND THREATS

## Informational

Users can burn Pulsar tokens and receive ETH reward, given that they provide valid signature from current `_priceOperator`.

```
function commitBurn(uint256 minBurn, uint256 nonce, uint256 deadline, bytes calldata signature) external payable {
    _verifyBurnInfo(minBurn, nonce, deadline, signature, _burnOperator);
    // burns can only happen at most once per interval
    if (block.timestamp < lastBurnTime + burnInterval) {
        revert BurnIntervalNotPassed();
    }

    (uint256 swapAmountWeth, uint256 swapAmountTitanx, uint256 reward) = _getAmounts();

    // pay the caller: unwrap WETH and send ETH to caller
    weth.withdraw(reward);
    payable(msg.sender).transfer(reward);

    // swap WETH for Pulsar if needed
    if (swapAmountWeth > 0) {
        _swapWethForPulsar(swapAmountWeth);
    }

    // swap TITANX for Pulsar if needed
    if (swapAmountTitanx > 0) {
        _swapTitanxForPulsar(swapAmountTitanx);
    }

    // burn whatever PULSAR is in this contract
    Pulsar pulsar = Pulsar(pulsarAddress);
    uint256 pulsarAmount = pulsar.balanceOf(address(this));
    if (pulsarAmount == 0) {
        return;
    }
    if (pulsarAmount < minBurn) {
        revert MoreBurn();
    }

    pulsar.burn(pulsarAmount);
    // update the timestamp
    lastBurnTime = block.timestamp;
    // emit the event
    emit CommitBurn(msg.sender, reward, swapAmountWeth, swapAmountTitanx, pulsarAmount);
}
```



# FOUND THREATS

## Informational

Unused functions and variables:

```
uint256 public burnLimitTitanx = 1 ether;  
function setBurnLimitTitanx(uint256 newBurnLimit) external payable onlyOwner {  
    burnLimitTitanx = newBurnLimit;  
}  
  
uint256 public maxSlippage;  
function setMaxSlippage(uint256 newMaxSlippage) external payable onlyOwner {  
    maxSlippage = newMaxSlippage;  
}
```

# CONTRACT 3 INFO

Token Name unavailable	Symbol unavailable
Contract Address 0x160c553ABFe8c645a3b6DFa56E8bFeFe2a3b5ce5	
Network PulseChain V4 testnet	Language Solidity
Deployment Date Oct 02, 2024	Contract Type Bridge interface
Total Supply unavailable	Decimals unavailable

## TAXES



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# FOUND THREATS

## High Risk

No high risk-level threats found in this contract.

## Medium Risk

No medium risk-level threats found in this contract.

## Low Risk

No low risk-level threats found in this contract.



# FOUND THREATS

## Informational

Owner can initiate the contract once.

After initiation, ownership is transferred to address(0).

```
function init(address _eTitanxAddress, address _ePulsarAddress) external {
    if (eTitanxAddress != address(0) || ePulsarAddress != address(0)) {
        revert InitStateMismatch();
    }
    if (_ePulsarAddress == address(0) || _ePulsarAddress == address(0)) {
        revert InvalidInput();
    }

    if (msg.sender != owner) {
        revert OnlyOwner();
    }

    eTitanxAddress = _eTitanxAddress;
    ePulsarAddress = _ePulsarAddress;
    _createPool();
    owner = address(0);
}
```





# FOUND THREATS

## Informational

Only liquidity operator can add Pulse/TitanX liquidity via addPulseXLiquidity().

```
function addPulseXLiquidity(  
    uint256 pulsarAmount,  
    uint256 titanxAmount,  
    uint256 slippage,  
    uint256 nonce,  
    uint256 deadline,  
    bytes calldata signature  
) external initialized {  
    if (liquidityOperator == address(0)) {  
        revert InvalidInput();  
    }  
    if (IERC20(ePulsarAddress).balanceOf(address(this)) < pulsarAmount) {  
        revert InsufficientBalance();  
    }  
    if (IERC20(eTitanxAddress).balanceOf(address(this)) < titanxAmount) {  
        revert InsufficientBalance();  
    }  
    _verifyLiquidityInfo(pulsarAmount, titanxAmount, slippage, nonce, deadline, signature, liquidityOperator);  
  
    TransferHelper.safeApprove(ePulsarAddress, UNISWAPV2ROUTER, pulsarAmount);  
    TransferHelper.safeApprove(eTitanxAddress, UNISWAPV2ROUTER, titanxAmount);  
  
    // deadline is checked here  
    IUniswapV2Router(UNISWAPV2ROUTER).addLiquidity(  
        ePulsarAddress,  
        eTitanxAddress,  
        pulsarAmount,  
        titanxAmount,  
        (pulsarAmount * (tenK - slippage)) / tenK,  
        (titanxAmount * (tenK - slippage)) / tenK,  
        address(this),  
        deadline  
    );  
}
```





## According to project's whitepaper:

### **Pulsar and TitanX: Symbiotic Tokenomics**

**Pulsar's minting mechanics are deeply intertwined with the virtual mining approach of TitanX, a process where users can mint TitanX by engaging in a system that becomes progressively challenging over time.**

**The difficulty increases in TitanX mining inherently affects Pulsar's minting conditions, ensuring that Pulsar's accessibility is balanced with the evolving dynamics of the TitanX ecosystem.**

Total supply and distribution model.

Minting process and the 4:1 ratio with TitanX.

Fee structure and its distribution.

Eth/TitanX to Pulsar Arbitrage.

For more detailed information, visit project's whitepaper page:

[https://pulsar.win/wp-content/uploads/2024/09/PulsarWhitePaper\\_V2.pdf](https://pulsar.win/wp-content/uploads/2024/09/PulsarWhitePaper_V2.pdf)

TOKENOMICS



# WEBSITE

**Website URL:**  
<https://pulsar.win/>

**Domain Registry**  
<https://www.networksolutions.com>

**Domain Expiration**  
2025-12-28

**Technical SEO Test**  
Passed

**Security Test**  
Passed. SSL certificate present

**Design**  
Single page design with appropriate color scheme and graphics.

**Content**  
The information helps new investors understand what the product does right away.  
No grammar mistakes found.

**Whitepaper**  
Well written and explanatory.

**Roadmap**  
No

**Mobile-friendly?**  
Yes



**pulsar.win**

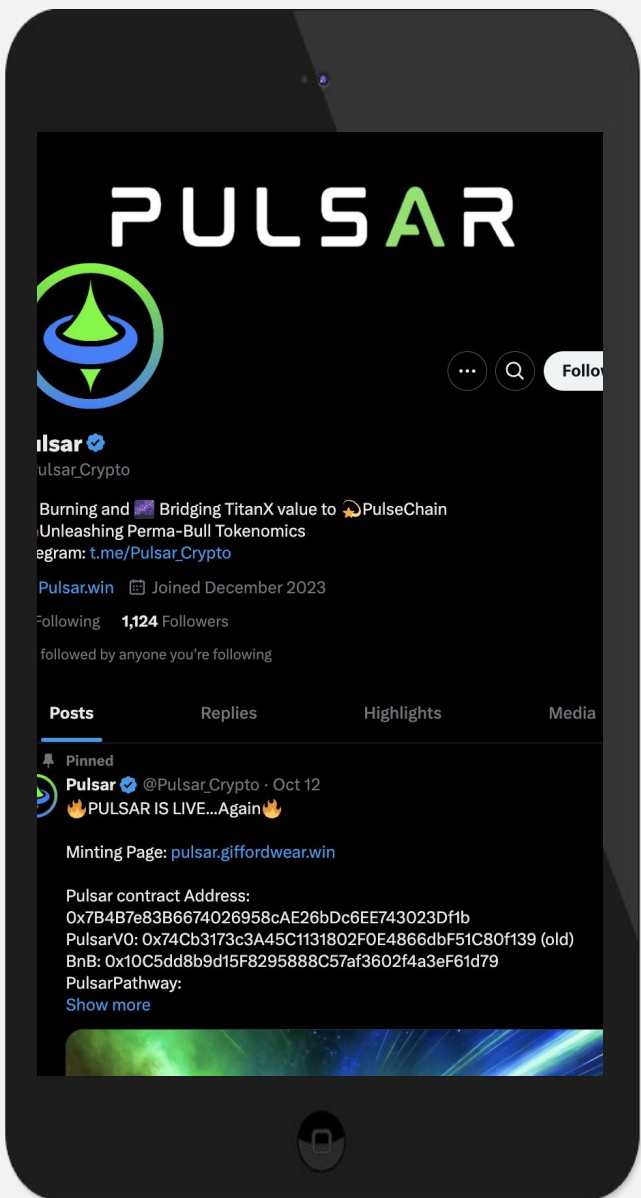
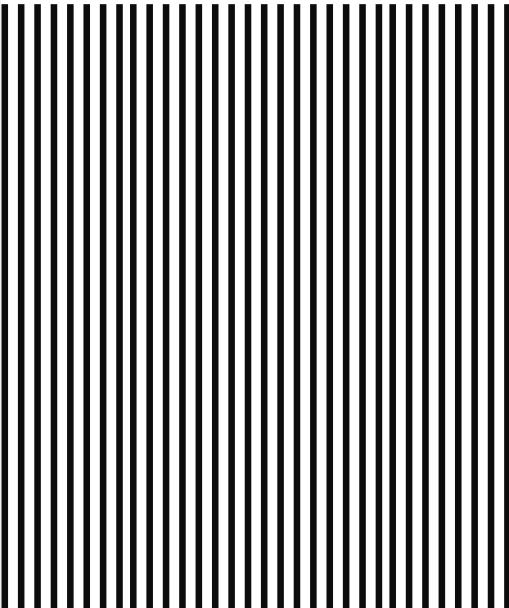


# SOCIAL MEDIA



## ANALYSIS

The project's social media pages are active.



**Twitter:**  
@Pulsar\_Crypto

- 1 155 Followers
- Active



**Discord**  
unavailable



**Telegram:**  
@Pulsar\_Crypto

- 970 members
- Active members
- Active mods



**Medium**  
unavailable



# SPYWOLF

## CRYPTO SECURITY

Audits | KYCs | dApps  
Contract Development

# ABOUT US

We are a growing crypto security agency offering audits, KYCs and consulting services for some of the top names in the crypto industry.

- ✓ OVER 700 SUCCESSFUL CLIENTS
- ✓ MORE THAN 1000 SCAMS EXPOSED
- ✓ MILLIONS SAVED IN POTENTIAL FRAUD
- ✓ PARTNERSHIPS WITH TOP LAUNCHPADS, INFLUENCERS AND CRYPTO PROJECTS
- ✓ CONSTANTLY BUILDING TOOLS TO HELP INVESTORS DO BETTER RESEARCH

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# Disclaimer

This report shows findings based on our limited project analysis, following good industry practice from the date of this report, in relation to cybersecurity vulnerabilities and issues in the framework and algorithms based on smart contracts, overall social media and website presence and team transparency details of which are set out in this report. In order to get a full view of our analysis, it is crucial for you to read the full report.

While we have done our best in conducting our analysis and producing this report, it is important to note that you should not rely on this report and cannot claim against us on the basis of what it says or doesn't say, or how we produced it, and it is important for you to conduct your own independent investigations before making any decisions. We go into more detail on this in the disclaimer below – please make sure to read it in full.

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No applications were reviewed for security. No product code has been reviewed.

