

There are many smart contract auditing companies and services in the industry that can provide the best solutions based on your audit requirements. However, choosing the right company for auditing your protocol and codebases can be challenging.

We have thoroughly reviewed, evaluated, and analysed tens of smart contract security companies to help you find the best ones to secure your smart contracts and users.

Smart contracts are known for their efficiency and reliability, they have the delicate duty of transferring, storing, and keeping track of sometimes huge amounts of digital value. This requires strong security measures to prevent exploits and ensure user safety.

According to the Crypto Crime Report

by Chainalysis, crypto-related crimes reached an all-time high in 2022, involving \$20.6 billion in blockchain transactions. Decrypt said that in 2023 alone the total amount of [Total Value Locked stolen in DeFi was higher than \\$1Billion](#).

This is why we have smart contract audits,

[smart contract auditors

](<https://www.cyfrin.io/blog/how-to-become-a-smart-contract-auditor>)and smart contract auditing companies.

In this article you'll take a deep dive into the top 10 smart contract auditing companies

and learn what sets each of them apart.

Before diving, let's briefly refresh what a smart contract auditing is, and what Smart contract auditing companies actually do.

What is a Smart Contract audit service?

A [smart contract audit](#) is a time-boxed security-based code review on your smart contract / Web3 system. An auditor's goal is to find as many vulnerabilities as possible and educate the client on ways to improve the security of their codebase moving forward.

A Smart Contract Audit involves line-by-line analysis, stressing, testing, and understanding of smart contracts or codebases through manual reviews and automated tests. This to ensure best practices are followed and the security and reliability of a smart contract or code base is verified to reduce the risk of exploits and loss of funds.

There are different types of audits, ranging from [Competitive audits](#), where 1000s of security researchers compete to find exploit vectors in a code base

, to Private audits

, where a selected team of top-notch security researchers works hand in hand with a protocol's team to ensure their smart contracts and users are secured.

In this list of top Smart contract auditing companies, you'll find both the best competitive auditing platforms, and smart contract audit companies this year - let's explore the differences.

What Is A Smart Contract Audit Company?

Smart contract auditing companies are firms that specialise in ensuring the security of smart contracts. They thoroughly analyse and stress test the code in your smart contract to identify any potential bugs, exploit vectors, or unintended behavior.

Their goal is to find and address vulnerabilities to ensure the integrity and reliability of your contract.

A professional audit companies can and will give you all the guidance you need to move forward on your security journey so you can feel confident deploying.

You can learn more about [what is a smart contract audit here](#).

Perfect for:

- Pre-deployment smart contracts
- Deployed smart contract

- Smart contracts at any auditing round

What Is A Smart Contract Competitive Audit?

Competitive smart contract auditing competitions involve 1000s independent auditors examining the security and reliability of a smart contract simultaneously.

Competitive auditing

fosters a healthy environment by providing opportunities for auditors to showcase their skills.

These competitions involve different roles such as auditors

who protect the ecosystem by identifying threats, judges

who assess the severity and validity of findings and evaluate auditors' performance, and projects

that sponsor prize pools to incentivise auditors to audit their projects.

Auditors compete to identify vulnerabilities and inefficiencies, aiming to deliver a comprehensive report.

This method ensures multiple perspectives on contract security and promotes a higher level of scrutiny, leading to a robust and secure code base

.

Perfect for:

- Pre-deployment smart contracts
- Smart contracts at their first auditing round

Benefits Of Using An Auditor

Reaching out to a smart contract auditing company or putting your protocol through a smart contract auditing service can provide several benefits:

- Drastically reduces the risk of attacks and exploits

by identifying and addressing potential vulnerabilities before they can be utilized by malicious actors.

- Enhances confidence and trust in your smart contracts and protocol

as they have been validated by independent, third-party experts.

- Improves the efficiency of your contracts

by identifying areas for optimization, ensuring they consume as little gas as possible on the Ethereum network.

- Strengthens your credibility in the crypto community.

When your smart contracts are audited by a reputable company, it portrays your commitment to safeguarding users' interests, thus winning their trust and loyalty.

- Reduce financial losses.

A minor flaw in the smart contract can lead to massive financial losses upon execution. The audit helps to prevent such mishaps.

- Provides learning opportunities

. The audit reports often come with detailed explanations of the detected flaws, providing your team with a valuable opportunity to learn and improve their coding skills.

This assumes you'll be working with a good smart contract auditing companies - let's see how to evaluate "good".

How to choose the right Smart contract audit service

As we've said, choosing the right smart contract auditing company for your protocol, smart contracts, or code base can be far from easy.

You need to take into consideration a lot of factors when it comes to trusting someone to secure the code that will potentially hold and or handle all the funds of your users, company, or service.

In this guide we took into consideration 5 factors:

- Experience:

Look for an audit company that has extensive experience in auditing smart contracts for big protocols with big TVLs. The more experience they have, the better they'll be at identifying potential vulnerabilities.

- Reputation:

A company's reputation in the community can say a lot about the quality of their audits. Look for companies that have a strong, positive reputation - which codebases they audited didn't get hacked.

- Transparency:

The company should be transparent about their auditing process. They should be willing to provide detailed explanations of their findings.

- Technical Expertise: The chains, patterns, architectures a smart contract auditing company is specialised on
- Cost:

While cost shouldn't be the only factor, it is still an important consideration. Make sure the cost of the audit is within your budget, but also worth the value it provides.

With this in mind, let's take a look at the top 10 smart contract auditing companies this year.

Top 10 smart contract auditing companies

1. TrailOfBits

[TrailOfBits](#) has been contributing to Web3 Security since 2012. Their commitment is to address the most complex security challenges by designing and innovating new technologies, as well as conducting thorough research and evaluation of the latest technological products to ensure their security worth.

Smart Contract Audit Services

- They offer three main services: [Software Assurance](#), [Security Engineering](#) and [Research and Development](#).
- Also developed tools like [Echidna](#), [Manticore](#) and [Slither](#) to help developers and researchers in identifying and resolving critical vulnerabilities.

Technical Expertise

Ethereum, Algorand, Cairo/Starknet, Cosmos, Solana, Substrate/Polkadot.

Trusted Clients

Aave, Acala, Algorand, Arbitrum, Balancer, Bitcoin SV, Chainlink, Compound, Curve, Frax, Liquity, MakerDao, Optimism, Parity, Polygon, Solana, Starknet, and Yearn.

2. Cyfrin

Trusted by leading protocols like SudoSwap LinkPool Oku and Beanstalk, we put together the attention of a community of thousands of top-notch auditors, and the expertise of a team of world wide recognised security researchers

It aims to reduce the amount stolen from DeFi 1% every year and offers a one-stop shop for making Web3 more secure, reliable, and accessible.

Smart Contract Audit Services

Cyfrin is committed to providing 3 main services:

[Private Smart Contract Audits

](<https://cyfrin.io/audits>), where the team carefully go through each line of code to ensure it is secure and reliable.

[Codehawks

](<https://www.codehawks.com/>), a gamified competitive auditing platform where the world's best auditors compete with each other and win prizes.

[Cyfrin Updraft

](<https://updraft.cyfrin.io>), which is aimed at educating more and more people about Web3 Security, has over 5 million views on YouTube.

Technical Expertise

Cyfrin delivers Solidity, Vyper, and EVM-based Security and supports tools like Foundry, Hardhat, Brownie, Apeworx and Truffle.

Trusted Clients

Cyfrin's Team conducted [audits](#) for LinkPool, Sudoswap, Uniswap, HyperLiquid, DropClaim, Beanstalk Wells, Stake.link, and Woosh Deposit Vault.

3. SpearBit

[Spearbit](#) is a decentralized network of security experts that offers Web3 security consulting services. They bridge the gap between independent security experts and Web3 projects that require their services. Auditors have to go through a screening process to become a part of Spearbit and get assigned the appropriate [designation](#).

Smart Contract Audit Services

Speabit offers reviews and other security-related services to Web3 projects with the goal of creating a stronger ecosystem and enables expert freelance auditors seeking flexibility to work on interesting projects together and provide [educational content](#) for Web3 security enthusiasts.

Technical Expertise

Spearbit's technology stack, including but not limited to protocol design, smart contracts and solidity compiler, as well as tools such as Foundry Tests, Fuzzing campaigns, and formal verification.

Trusted Clients

Redacted, Primitive, Alchemy, NFTX, Liquid Collective, Astaria, BadgerDAO, Flood, Element, Opensea, Nouns DAO, Morpho, Llama, Kiln, Polygon zkEVM, Goldfinch and [many more](#).

4. OpenZeppelin

[Openzeppelin](#) is a cybersecurity technology and services company known for developing its [Solidity libraries](#). It was the first cybersecurity company to introduce gamification to identify security vulnerabilities in smart contracts. Since 2015, the company has helped protect assets worth over \$10 Billion

in some of the most prominent organizations in the crypto sector.

Smart Contract Audit Services

Openzeppelin is the standard for secure blockchain applications. They provide multiple services, including:

- Reliable audits to secure smart contracts from various vulnerabilities.
- [Ethernaut

](<https://ethernaut.openzeppelin.com/>), a game that challenges developers to find and exploit security weaknesses in smart contracts.

- [Defender

](<https://www.openzeppelin.com/defender>), a free service which helps projects automate their smart contract administration, offering a secure and private transaction infrastructure.

Technical Expertise

Openzeppelin has expertise across the whole stack: from languages to smart contract systems, protocols, and applications. Their portfolio spans distributed payment networks, financial structures, and governance systems.

Smart Contract Trusted Clients

Openzeppelin is trusted by Ethereum, Compound, Polkadot, Bancor, Coinbase, Celo, 1inch, Optimism, The Graph, and [many more](#).

5. Consensys Diligence

Smart Contract Auditing is one of the services provided by [Consensys](#). They have protected 100+ blockchain companies with the help of manual auditing and detailed analytics reports.

Smart Contract Audit Services

Consensys Diligence offers a range of products and services to help teams launch their blockchain applications with confidence. These include:

- Smart Contract Audits, which provide comprehensive code reviews, and a [suite of tools

](<https://consensys.io/diligence/tools/>) such as MythX, Harvey, Mythril, Scribble, Surya, Karl, Theo, AraGraph, Legions, and the SWC Registry.

- Threat Modeling services can help teams visualize the project's attack surface and continually update the threat model for evolving risks.
- Provide Fuzzing

to detect vulnerabilities before deployment, which can save teams from costly smart contract rewrites.

Technical Expertise

Consensys Diligence primarily uses its in-house tools such as fuzzing and CLI to audit EVM-compatible smart contracts and protocols. Along with manual testing, penetrating testing, and code reviews.

Trusted Clients

Lybra Finance, Wallet Guard, MetaMask, Geode Liquid Staking, Filecoin, Socket, Rocket Pool Atlas, Forta, 1inch Exchange, Fuji Protocol, Gamma, PoolTogether, Rocketpool, DeFi Saver, DAOfi and [more](#).

6. Sigma Prime

[Sigma Prime](#) specialise in information security, blockchain, and system design. Their team provides the expertise required to operate securely and efficiently in high-risk, dynamic and emerging environments. Sigma Prime also founded and maintains [Lighthouse

](<https://lighthouse.sigmaprime.io/>), an open-source implementation of the Ethereum 2.0 specification written in Rust.

Smart Contract Audit Services

- Sigma Prime is trusted by various decentralized projects, making it a leading provider of Ethereum smart contract security reviews.
- They help major L1 and L2 networks strengthen their security posture through in-depth low-level assessments.

Technical Expertise

Sigma Prime primarily works on making Ethereum

more secure and aims to work on its core protocol development with an active interest in formal verification techniques, zero-knowledge cryptography and advanced assessment tools.

Trusted Clients

Trusted by Aave, AdEx, AlphaWallet, Arbitrum, Aurora, Avalanche, Chainlink, Dapper, Ethereum, Filecoin, Gearbox, Infinigold, Near, Optimism, Polkadot, Sushiswap, Synthetix and Protocol Labs.

7. ChainSecurity

[ChainSecurity](#) provides end-to-end security solutions for blockchain protocols and smart contracts. They've created two impressive tools — [Securify

](<https://github.com/eth-sri/securify2>) and [VerX

](<http://verx.ch/>) — for detecting and fixing security issues in smart contracts, ensuring the security and integrity of decentralized projects.

Smart Contract Audit Services

- ChainSecurity uses an automated audit platform, Securify, not only to confirm the accuracy of the smart contract but also to safeguard its assets.
- It performs security assessments by revealing any potential security vulnerabilities and making sure Ethereum smart contracts comply with project specifications.

Technical Expertise

ChainSecurity solely aims to focus on Ethereum

and Polkadot

-based smart contract auditing.

Trusted Clients

ChainSecurity is trusted by MakerDAO, Lido, Curve, Aave, Compound, Uniswap, Yearn.Finance, Bancor, 1inch, xDai, Rarible, Polkadot, Paxos, Enzyme and Circle.

8. Dedaub

[Dedaub](#) provides end-to-end security solutions to the world's leading web3 protocols and completed 100+ full-protocol audits

and \$1.5 Billion funds

rescued in white-hat hacks. They leverage powerful analysis, advanced AI and analytics and human expertise to audit the smart contracts.

Smart Contract Audit Services

- Dedaub offers contract security through manual and automated testing.
- Created [WatchDog

](<https://dedaub.com/watchdog>), an advanced security platform that uses automated static analysis warnings, real-time blockchain events, and continuous audit support to prevent serious hacks.

- [Contract Library

](<https://dedaub.com/contract-library>), is another service provided by Dedaub as the most thorough decompiler for contracts on the Ethereum blockchain.

Technical Expertise

Dedaub provides support for both Ethereum

and Binance Chain

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Trusted Clients

Chainlink, Ethereum, DeFi Saver, Lido, Ledger, Yearn, Perpetual Protocol, Fantom, Liquity, GMX, Blur, Coinbase.

9. CodeArena

[CodeArena](#) is a platform that offers competitive and solo audits to secure projects. Wardens identify vulnerabilities, Judges evaluate the findings, Projects create prize pools, and Lookouts review submissions.

Smart Contract Audit Services

CodeArena offers several types of smart contract security auditing services, each with a specific purpose:

- [Open Audits](#) are open to everyone and all information is public.
- [Private Audits](#) are exclusively for auditors who have met the conditions of the CodeArena Certified Contributor Program.
- [Invitational Audits](#) are exclusive audits where sponsors collaborate with top auditors from CodeArena's community.
- [Mitigation Reviews](#) are conducted when new code is ready for review after CodeArena audit. The highest-performing auditors who found the initial vulnerabilities are invited to participate in this review.
- [Bot Races](#) involve registering bots that submit findings that can be automatically detected in a project's code.
- [Test Coverage](#) provides surge capacity for engineering teams pre-launch, empowering projects to meet all their priorities without compromise.

Technical Expertise

CodeArena is an audit platform that enables auditors to participate in code audits and submit reports. It supports multiple chains and tools.

Trusted Clients

Chainlink, Delegate, ElasticDAO, NFTX, Yield, PoolTogether, Covalent, Ambire, Mochi, BadgerDAO, Slingshot, yAxis and [many more](#).

10. CodeHawks

[CodeHawks](#) is a competitive auditing platform that focuses on helping companies secure their smart contracts and ensuring that auditors get paid for their services.

It is powered by [Cyfrin

](<https://www.cyfrin.io/>), a leading Web3 security company and has distributed more than \$350,000

on its platform.

Audit Services

- CodeHawks' audit submissions are completely anonymous to ensure impartial judging.
- Educational content is provided to assist in the journey of becoming an auditor.
- The auditing process involves a large number of experienced and skilled professionals, who identify and address any issues in the smart contract. This collaborative approach not only engages the community but also brings diverse perspectives and expertise to the table, ensuring the highest level of security and reliability.
- CodeHawks will be soon introducing a marketplace

for smart contract pre-deployment audits where the projects can simply post their audits and pick the best auditor for their

project.

Technical Expertise

CodeHawks operates as a versatile audit platform that invites a wide array of auditors skilled in multiple programming languages and blockchain networks.

Trusted Clients

Sparkn, Beedle, DittoETH, Vyper

Conclusion

Recognising the significance of top smart contract audit companies is crucial in ensuring the safety your projects and protocols. These audits are essential for identifying and resolving vulnerabilities in the code, saving both money and reputation.

With the emergence of more DeFi projects and applications, compromising on security is not an option. Therefore, it is not only advisable but also necessary to have experts conduct a thorough smart contract audit.