Trustworthy Blockchain Systems are in Demand

The world needs more secure blockchain systems.

CertiK
Creating the most powerful cyber defense for mission-critical applications

CertiK for Blockchain
End-to-end security for the entire blockchain lifecycle

Securing the Web3 World
Blockchain’s global economic impact

PwC expects blockchain to boost global GDP by over **25x** within 10 years

As blockchain’s growth boomed in 2020, thefts have grown as well. New forms of innovation, including DeFi, have opened the door to new vulnerabilities.
Still, to one holding digital/cyber assets at a time when cyber offense is much more powerful than cyber defense, the cyber risk is a risk that I can’t ignore.

— Ray Dalio

Co-Chief Investment Officer & Co-Chairman of Bridgewater Associates, L.P.

What I Think of Bitcoin, January 2021
Giant Challenges in Securing Safety-Critical Software

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<th>Security rate &lt; 97%</th>
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<tr>
<td>- Monitoring, sandbox, etc.</td>
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<td>- Pro-active defense</td>
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<td>- Patching vulnerabilities</td>
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<td>- Black-box attacks</td>
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<td>- Less costly</td>
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<th>Security rate &gt; 99.9%</th>
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<tr>
<td>- Formal Verification</td>
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<td>- “It took 22 years to discover Meltdown and Spectre vulnerabilities”</td>
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<th>Blockchain &amp; Web3</th>
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<tr>
<td>- New technical stack</td>
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<td>- World computers that no one can stop</td>
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<td>- Smart contracts are hard to change</td>
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<td>- Most codes are open sourced</td>
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<td>- 1 vulnerability can lead to &gt; $10MM lost</td>
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"Formal reasoning about concurrency [in software] seems to be still in the early stages"

Founded in 2018 by two professors, CertiK leverages the leading Formal Verification technology to mathematically ensure the highest level of security for blockchains, smart contracts, and Web3 apps.

Prof. Zhong Shao, Ph.D.
Co-Founder
Zhong Shao is Thomas L. Kempner Professor and Department Chair in the Department of Computer Science at Yale University. He earned his Ph.D. in Computer Science from Princeton University in 1994.

Shao has been a leading figure working on the highly visible research fields on cybersecurity, programming languages, operating systems, and certified software. He and his FLINT group at Yale have developed the world’s first hacker-resistant concurrent operating system CertiKOS—a major milestone toward building cyber-physical systems that are provably free from software vulnerabilities.

Prof. Ronghui Gu, Ph.D.
Co-Founder
Ronghui Gu is the Tang Family Assistant Professor in Computer Science at Columbia University. He obtained his Ph.D. degree from Yale University in 2016 and bachelor’s degree from Tsinghua University in 2011.

Gu is the primary designer and developer of the first verified concurrent OS kernel CertiKOS. For his work in systems verification, Gu received: three Amazon Research Awards, an OSDI Jay Lepreau Best Paper Award, an SOSP Best Paper Award, a CACM Research Highlight, and a Yale Distinction Dissertation Award.
Bringing the Best of Academia to Enterprise

Creators of CertiKOS, the world’s first and only, fully verified multi-core OS kernel and hypervisor.

“Ten years ago, no one would predict that we could prove the correctness of a single-threaded kernel, much less a multi-core one. Zhong and his team have really blazed a spectacular trail for the rest of us.”

— Greg Morrisett

Dean and Vice Provost of Cornell Tech
Former Dean of the Faculty of Computing and Information Science at Cornell University

CertiKOS related work won the Best Paper Awards of SOSP’19 and OSDI’21, 3 Amazon Research Awards, 1 VMware Systems Research Award, and was selected as the Research Highlights by CACM (Communications of ACM).

CertiKOS was deployed on the LandShark Robotics, an Unmanned Ground Vehicle (UGV).
CertiK for Blockchain

#1 cybersecurity company in the blockchain and web3 industry

- $300B Assets Secured
- >30% Market Share of All Audited Web3 Projects
- 63%+ Share of Voice
- 5,000+ Audit Performed
- 60,000+ Vulnerabilities Detected

- 70%+ Market Share of All 17,000 CoinMarketCap

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- 60,000+ Vulnerabilities Detected

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Market Share Of Top 200 CMC

69%+
Market Share Of Top 500 CMC

72%+
Market Share Of Top 10,000 CMC

DeFi

Platform

NFT & Metaverse

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DeFi

Platform

NFT & Metaverse
Defending Against Code Vulnerabilities

CertiK Audit/Verification Integration

- **Audit**
  - Static Protection
  - Every Upgrade

- **Skynet**
  - Dynamic Protection
  - Every Month

- **Leaderboard**
  - Transparent Security Score
  - Transparency

200+ New Audits Monthly
5MM + Lines of Code Monthly
2000 + Vulnerability Findings Monthly

CertiK AI/ML Tools
Expert Review
Security Report

- Smart Contract
  - Source code and deployment scripts

- Specification
  - Our US-based team includes top engineers that have audited leading projects like USDT, JAVE, and Terra.

Lists security vulnerabilities and certified or violated requirements.
Defending Against Code Vulnerabilities

Certik Audit/Verification Integration

- **Audit**: Static Protection
- **Skynet**: Dynamic Protection
- **Leaderboard**: Transparent Security Score

Every Upgrade

Every Month

Transparency

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SECURING THE WEB3 WORLD
Defending Against Real-time Attacks

CertiK Skynet Dynamic Monitoring System

On-chain security monitoring and data insights engine with 24/7 security intelligence
Perform post-deployment monitoring and security coverage
Delivers comprehensive real-time on-chain insights for projects

Monitored 7.8 billion assets transfers
Labeled 4.2 million accounts
Over 800 enterprise subscriptions since 2021

Every Upgrade
Audit
Static Protection

Every Month
Skynet
Dynamic Protection

Transparency
Leaderboard
Transparent Security Score
CertiK Security Leaderboard

- Provides the community with transparent, easy-to-understand security insights
- 10,000+ listed projects
- Total users: 3M+
$2B Valuation B3 Round

Our Investors