

DeCaffeth Story and Objectives

January 2025

In Blockchain and Web3 era, *Community* Is Important

Decentralization

Open to Contribute

Supportive Culture

Blockchain and Web3 *Developers* Community

Growing Knowledge

Upskilling

Effectiveness

Global Events Impact on Local Communities

DevConnect 2023



story and shaping

DeCaffeth

DeCaffeth

De + Caffe + eth

Decentralized

Ethereum
(First and Biggest
community of Web3 devs)

Friendly Gathering

DeCaffeth Was Born To:

- Connect Blockchain and Web3 developers together
- Help knowledge and pure experience sharing in rapidly evolving era
- Enable intersection of Ideas
- Help team building for future projects, contributions and collaborations
- Let you shape it
- Build things that will benefit all participants
- Help not just Tehran community :)

Meetup #1



DeCaffeth Past Meetups

A promotional graphic for a Web3 & Blockchain Developers Meetup. The background is dark blue with abstract white and purple geometric shapes. At the top left is a purple star-like icon. The main title "Web3 & Blockchain Developers Meetup" is in large, bold, white sans-serif font. Below it, "by Decaff.eth" is written in a smaller white font. A date "17 SEP" is prominently displayed in white. Below the date, the time "4:00 PM - 7:00 PM" and location "Tehran, Sharif University of Technology" are listed in white. To the right of the text is a large, stylized purple Ethereum logo (a purple diamond shape) resting on a blue circular base. A QR code is located to the left of the Ethereum logo. Below the QR code is a green button with the text "Register Now". At the bottom, social media links for LinkedIn, Instagram, and Twitter (@decaffeth) are shown, along with a URL "https://lu.ma/09vmizag". There is also a small circular logo with Persian text at the bottom right.

Web3 & Blockchain Developers Meetup

by Decaff.eth

17 SEP

4:00 PM - 7:00 PM

Tehran, Sharif University of Technology

<https://lu.ma/09vmizag>

Register Now

LinkedIn Instagram Twitter

@decaffeth

https://lu.ma/09vmizag

لینک پیشگیری از میزگاری

Meetup #2



DeCaffeth Past Meetups

Devcon 7 Warmup Meetup
Web3 & Blockchain Developers

by Decaff.eth

15 OCT
5:00 PM - 8:00 PM
Tehran, Andishevarzan
House


<https://lu.ma/jpit5d64>

[Register Now](#)

🔗 @ X @decaffeth



Meetup #3



DeCaffeth Past Meetups



Today: Meetup #4

- Web3 career upgrading by Parsa Aminpour
- Web3 security career path by Erfan
- Global Events Overview by Mahdieh Amiri





Upgrade Your Web3 Path



DeCaffeth Meetup #4

January 2025 - Isfahan

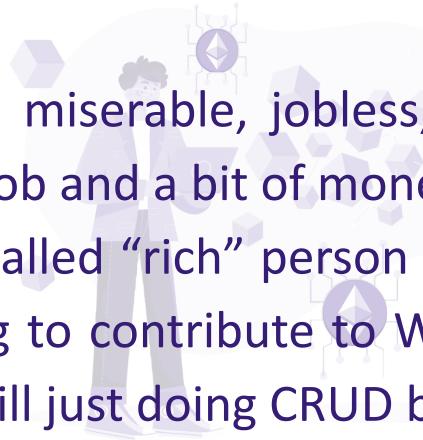


1. Upgrade Your Web3 Career

By **Parsa Aminpour** (Back-end and Web3 Developer)

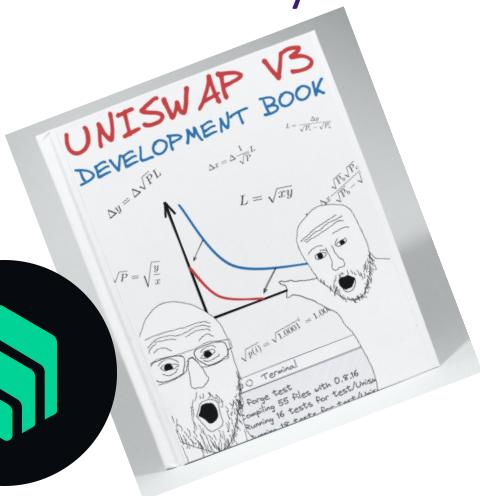
How to Get That Web3 Job!

- First, you're at the stage where you know the basics, like Solidity and fundamental concepts
- You want to go from a miserable, jobless, broken person to a miserable person but now with a job and a bit of money :D
- Or you're already a so-called “rich” person with another job, like a backend or frontend dev, looking to contribute to Web3 projects just to boost your salary (Though you're still just doing CRUD but now with a Web3 tag slapped on it :D)



Let's Break the Journey into Steps

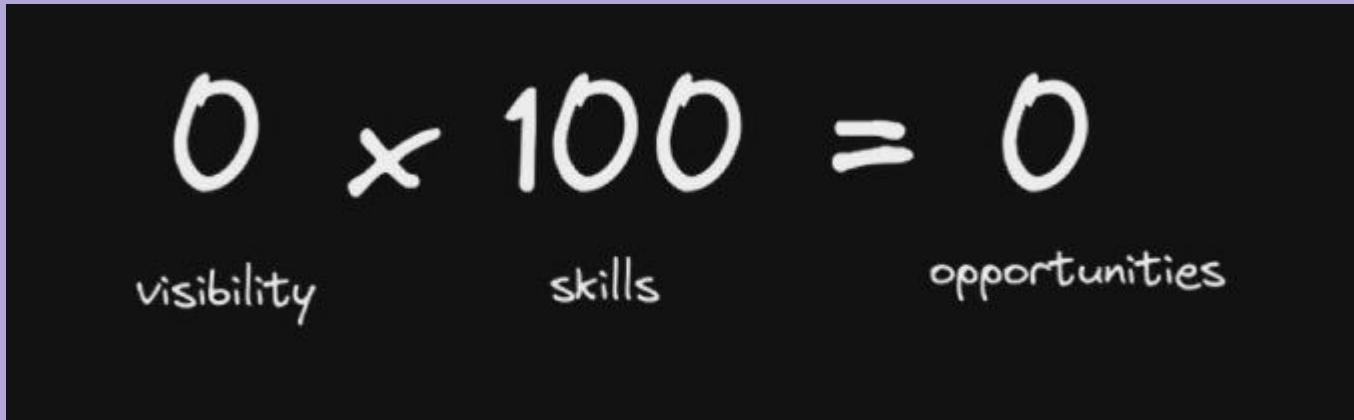
- The most important and obvious part: you need something to show.
So put in the work on your GitHub.
- Among the projects I've built in the past, these are the best ones you can work on:
 - UniswapV2 (<https://www.rareskills.io/uniswap-v2-book>)
 - UniswapV3 (<https://uniswapv3book.com/>)
 - Compound (<https://www.rareskills.io/compound-v3-book>)



Work on your social media, like Twitter
Grow your connections through meetups.

No one's got time to go through 100 resumes from Indian guys theses days.

Nothing beats the power of network effects in the crypto space.

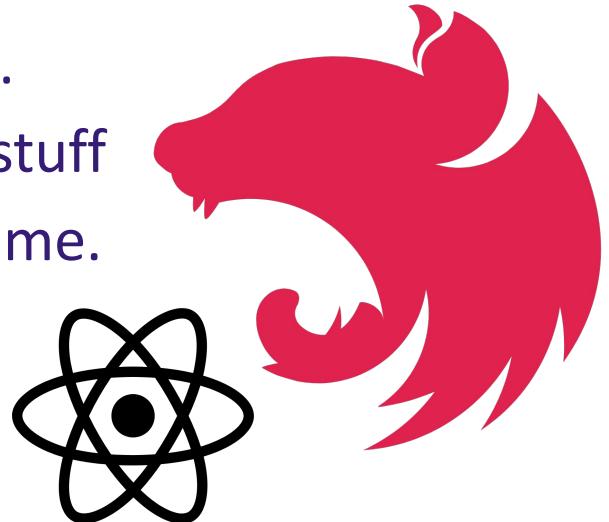


It's better to be a backend or frontend dev alongside being a Web3 dev.



In real scenarios, you'll need to work with backend or frontend folks and onboard them.

If you don't know the SWE stuff you're gonna be stuck big time.



You need to have a deep understanding of the protocol architectures in top categories.



You can find them [here](#)



70% of technical interviews include questions about smart contract architectures

Projects You Need to Be on Top of Their Architecture



DAO: Compound Governance sys



Lending: AAVE protocol



DEX: Uniswap



Eigen Layer

Links for Protocols to Review and Practice

- Lending: <https://defillama.com/protocol/aave>
- Dex: <https://defillama.com/protocol/uniswap>
- Restaking: <https://defillama.com/protocol/eigenlayer>
- DAO architecture: <https://defillama.com/protocol/compound-v3>



**Big issue:
you've done all this
but you don't have any real-world projects
on your resume
what's the move?**

Upcoming Hackathons

<https://hackathon.monad.xyz/>



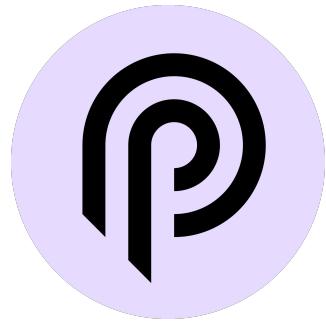
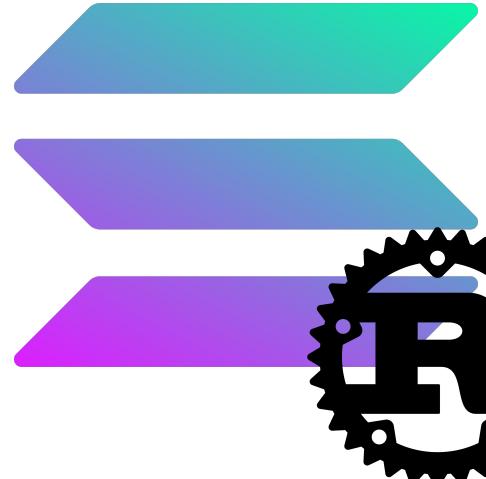
<https://mammothon.celestia.org/>

<https://ethglobal.com/events/agents>

<https://docs.eigenlayer.xyz/eigenlayer/resources/infinite-hackathon>



Tools and Framework to Start Development on SVM



Resources for EVM to SVM

- Learning Rust language: <https://shorturl.at/IDGDr>
- 60 days of Solana: <https://www.rareskills.io/solana-tutorial>
- Learn about all aspects of SVM: <https://www.helius.dev/blog>
- Advanced Solana Dev Course: <https://shorturl.at/2tV9L>
- Learning Anchor Framework: <https://www.anchor-lang.com>



2. Security as a Career

By **Erfan** (Web2 PenTester, Web3 Developer and Security Reviewer)

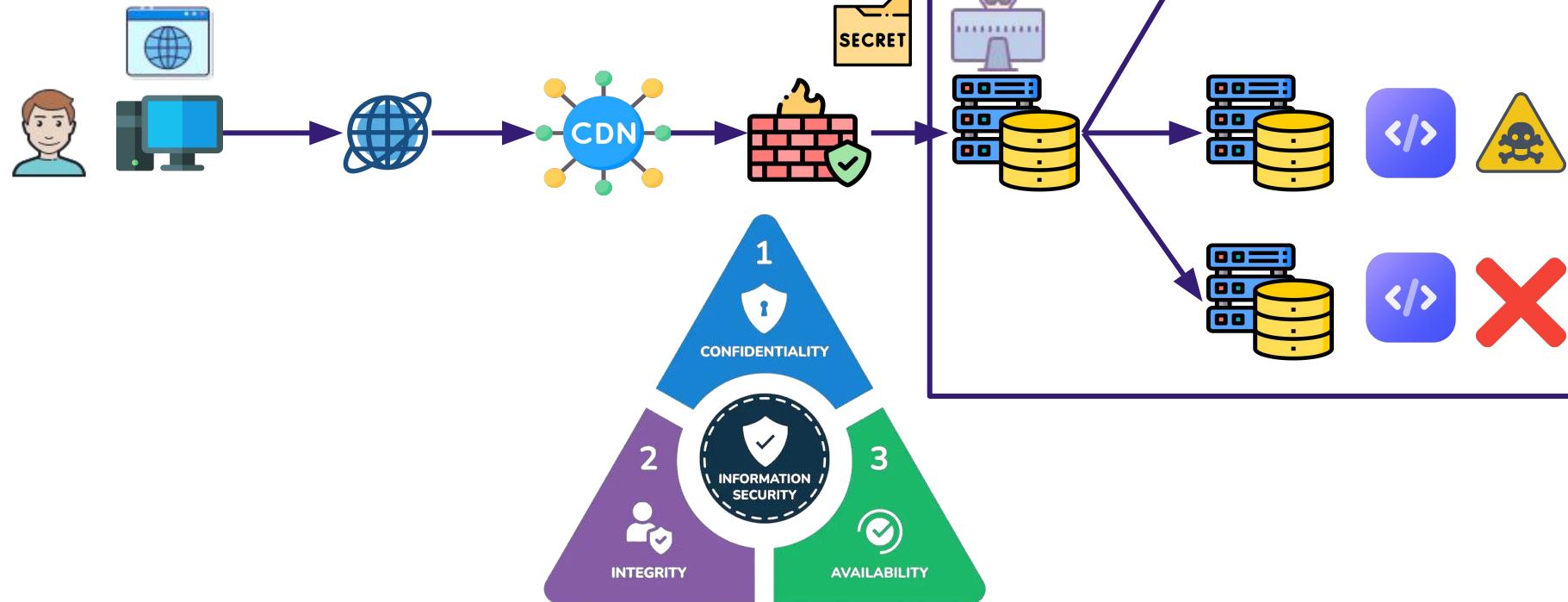
Agenda

- Why Security Matters?
- Web2 vs Web3 security
- Current State of Web3 Security
- Career Paths in Web3 Security
- How to pursue a career in Web3 security (Courses, Skills and Tools for outstanding)
- Role of AI in Web3 Security



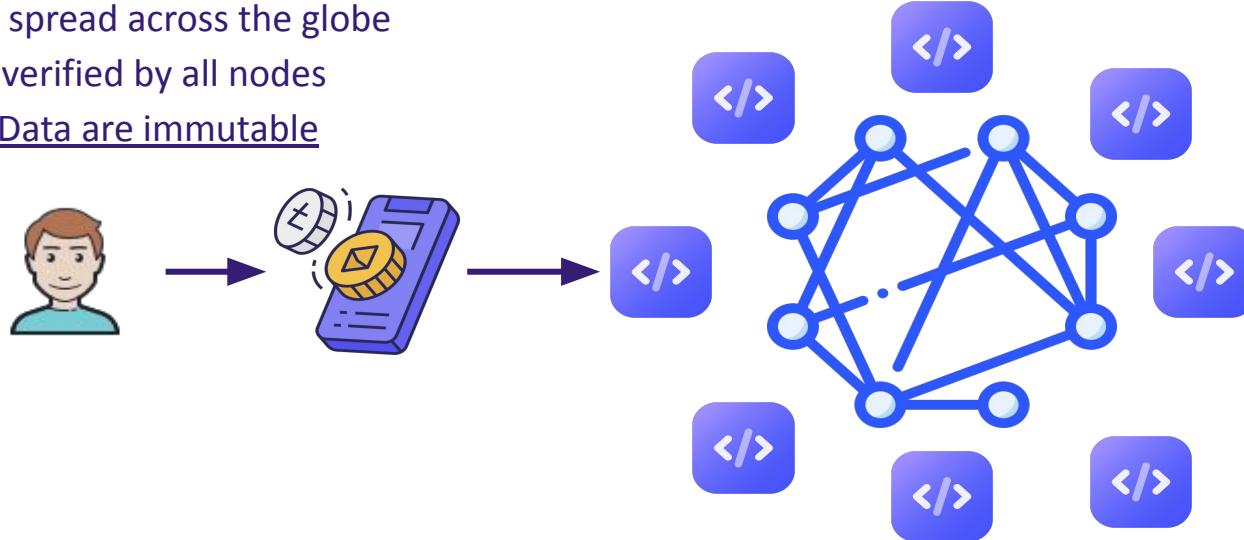
Let's Discuss: Why Security Matters?!

Web2 vs Web3 Security



Web2 vs Web3 Security

- Code/Data is not placed/executed in one place (Decentralized)
- Nodes are spread across the globe
- Execution verified by all nodes
- Code and Data are immutable

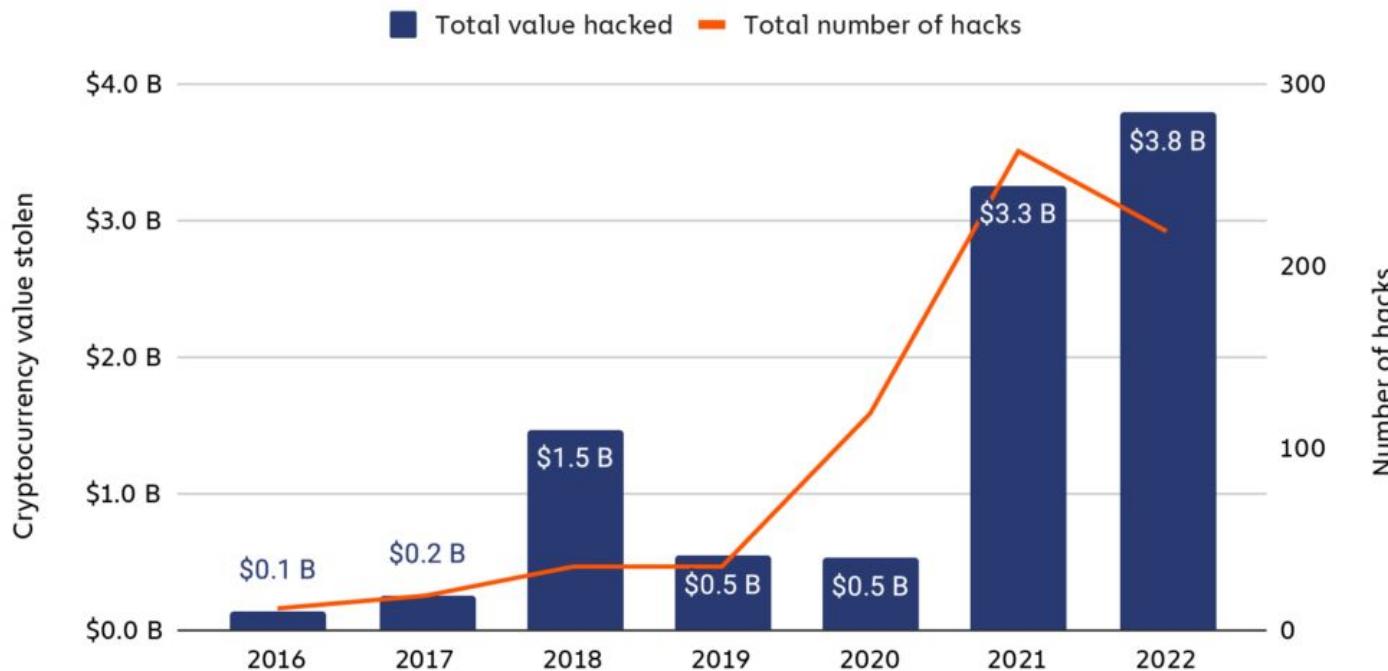


Web2 vs Web3 Security

Aspect	Web2 Security	Web3 Security
Attack Surface	Servers, Databases, User devices	Smart contract code, DeFi protocols, Oracles, Bridges
Common Vulnerabilities/Attacks	SQL injection, XSS, DDOS, etc	Flash loan attacks, Reentrancy, Access control issue, Logic flaws, Delegatecall exploits, etc
Responsibility	Mostly on organizations	Shared responsibility (developers, protocols, users)
Incident Recovery	Central authorities can roll back changes, issue refunds, and patch servers/code	Immutable code and transactions (no rollbacks or refunds possible)

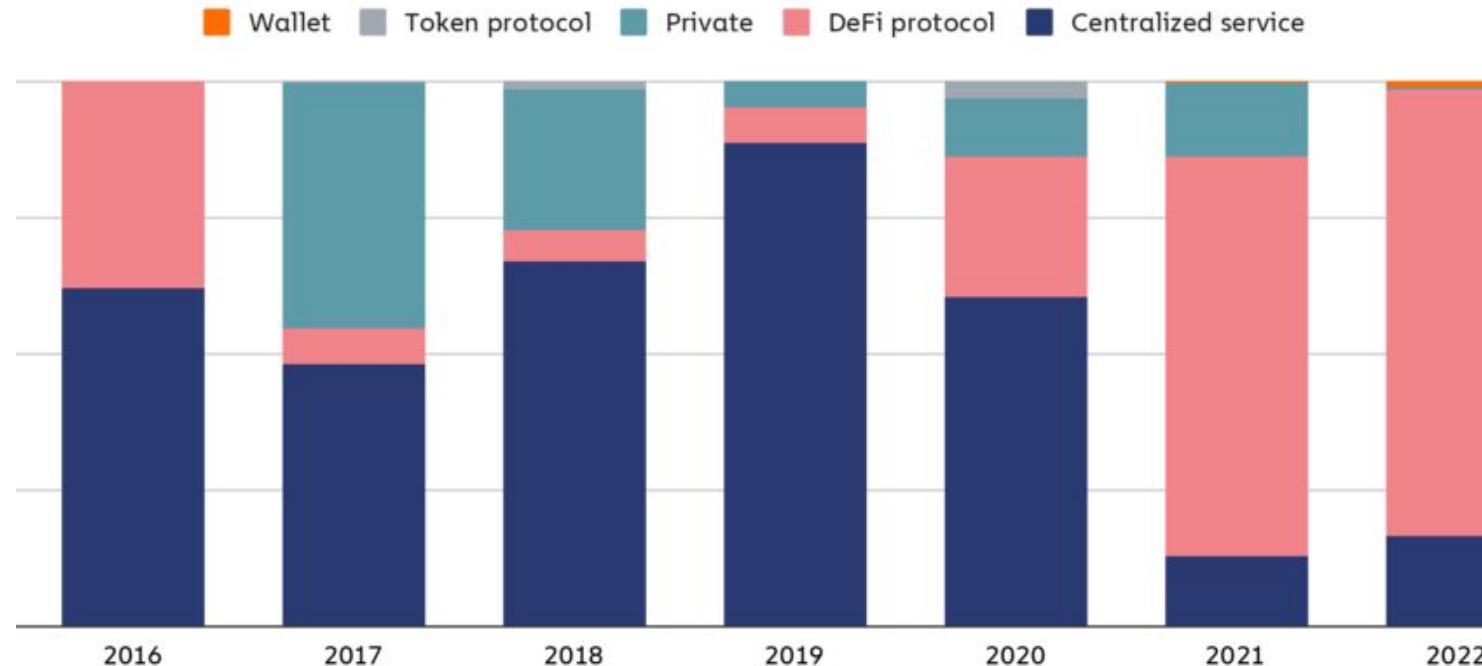
Current State of Web3 Security

Total value stolen in crypto hacks and number of hacks, 2016 - 2022



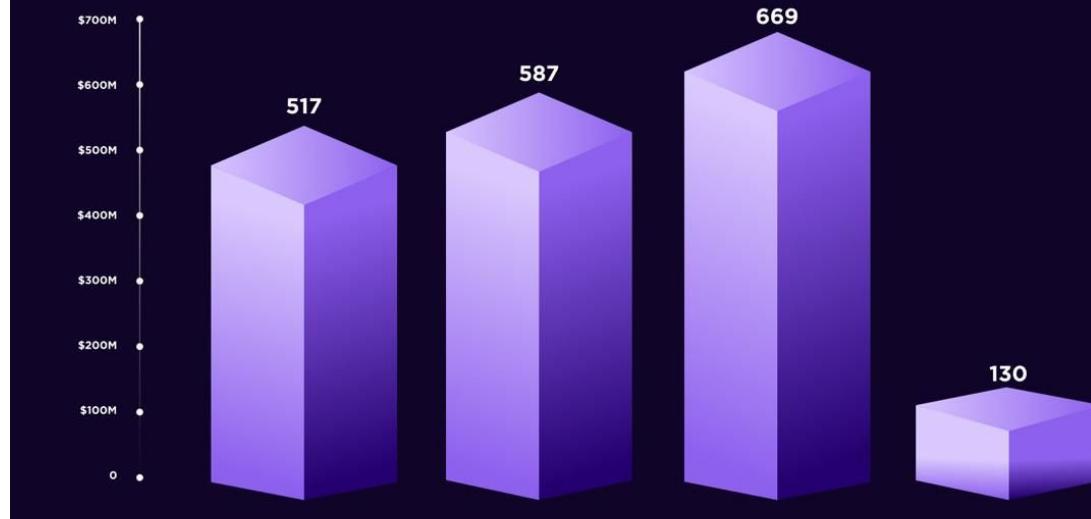
© Chainalysis

Cryptocurrency stolen in hacks by victim platform type, 2016 - 2022



© Chain

By the end of Q4 2024, \$2.3 billion had been drained from Web3 projects.
And quarter by quarter, the numbers climbed.



Source: Cyvers.Ai

\$2.3 billion had been drained from Web3 projects in 2024.

Q1: \$517 million, Q2: \$587 million, Q3: \$669 million, Q4: \$130 million

How Attackers Stole 2.3\$ Billion in 2024?

Access Control Violations – 81% of Total Losses

The overwhelming majority of funds were stolen due to weak authentication and permission mechanisms. This highlights a critical issue: many Web3 projects still aren't implementing proper security protocols to protect user assets.

Smart Contract Exploits – 19% of Total Losses

Even a single flaw in a smart contract can be catastrophic, and 2024 was proof of that. Poorly written code resulted in millions of dollars being siphoned from DeFi platforms.

When we analyze the types of incidents, the breakdown is even more alarming:

- **98 attacks (59%) stemmed from smart contract vulnerabilities**
- **67 incidents (41%) were due to access control failures**

What has been done to prevent these losses?

- Enhanced Security Audits and Bug Bounties
- Adoption of Advanced Security Protocols
- Development of Smart Certificates
- Implementation of Verifiable Embedded Wallets
- Regulatory Developments



Career Paths/Job Roles in Web3 Security

Job Roles/Career Opportunities

- Smart Contract Auditor
- Blockchain Security Engineer
- Web3 Penetration Tester
- Threat Intelligence Analyst
- Blockchain Forensics Specialist

Some places to look:

- <https://web3.career/remote+security-jobs>
- <https://web3.career/security-jobs>
- https://cryptojobslist.com/remote_security
- <https://www.indeed.com/q-web3-security-l-remote-jobs.html>



Skills, Tools, and Courses to Outstand

What Skills You Need?

- **Fundamental concepts**
 - Basics of Blockchain networks and distributed ledger technology (DLT)
 - Understand Ethereum and EVM
- **Smart Contract Development**
 - Knowing at least one development language (Solidity is preferred)
 - Familiarizing yourself with development frameworks like Foundry
 - Knowing how to use tools like Remix and crypto wallets



What Skills You Need?

- **Security Concepts**
 - Study common smart contract vulnerabilities
 - Learn about secure development best practices and common security pitfalls
- **Learn About Threat Modeling Techniques**
- **Smart Contract Testing**
 - Learn how to write and execute tests when developing smart contracts
 - Learn about fuzz testing

What Skills You Need?

- Advanced topics
 - Learn about formal verification
 - Dive deeper into more advanced and specific attack types and exploits (like the ones related to DeFi)



What Tools to Use?

- [Remix](#): Browser-based Solidity IDE.
- [Foundry](#): Rust-based Ethereum development framework.
- [Slither](#): Static analysis for Solidity vulnerabilities.
- [MythX](#): Cloud-based smart contract security scanner.
- [Mythril](#): Security analysis tool for EVM bytecode.
- [Manticore](#): Symbolic execution tool for smart contracts.
- Isabelle: General-purpose formal verification framework.
- Coq: Formal proof management system.
- [Truffle](#): Development framework for Ethereum dApps.
- [Glider](#): Query engine for smart contract code auditing.

What Courses/Resources?

- <https://www.cyfrin.io/updraft>
- <https://smartcontractshacking.com/>
- <https://secureum.substack.com/>
- <https://solodit.cyfrin.io/>
- <https://github.com/OpenZeppelin/ethernaut>
- <https://github.com/OpenZeppelin/damn-vulnerable-defi>
- <https://hexens.io/audits>
- https://github.com/trailofbits/publications/tree/master/datasets/smart_contract_audit_findings
- <https://github.com/trailofbits/publications#ethereumevm>

Bug Bounty/Contest

- <https://r.xyz/bug-bounty/programs>
- <https://code4rena.com/>
- <https://www.sherlock.xyz/>
- <https://hats.finance/>
- <https://codehawks.cyfrin.io/contests>
- <https://docs.codehawks.com/first-flights>



Role of AI in Web3 Security



AI as a Villain (AaaV)

- **Phishing Attacks**

- Phishing attacks increased by 1.265% between Q4 2022 and Q4 2023.
- 94% of organizations had email security incidents happen in 2023.
- There was an average of 31,000 phishing threats sent per day in 2023, many of which were powered by ChatGPT.
- 78% of people open AI-generated phishing emails, and 21% click on malicious content inside.
- Generative AI tools and automation help hackers compose phishing emails up to 40% faster.

AI as a Villain (AaaV)

- **AI Deep Fake**

- 63% of cybersecurity leaders are concerned about AI and the potential creation of deep fakes.
- Deep fake awareness is lacking—only 29% of people globally know what a deepfake is.
- 98% of deep fake videos are pornographic in nature.
- Deepfake videos online increased by 550% between 2022 and 2023.
- Deep Fakes made up 3% of all identity fraud in the US in Q1 2023.
- Of all social media platforms, YouTube has the highest deepfake exposure, with 49% of people surveyed reporting experiences with YouTube deepfakes.

AI as a Villain (AaaV)

- AI Deep Fake
- AI Voice Cloning
- Using AI to generate sophisticated and hard to detect malwares to infect devices and stole private keys or using the victim's computational resources for mining



AI as a Hero

- **CertiK**: A smart contract auditor in the Web3 space, CertiK integrates AI to detect and respond to complex threats, thereby enhancing the security of decentralized applications.
- **Audit Wizard**: Provides AI-driven insights into smart contract security, enabling users to scan for vulnerabilities, generate test suites, and analyze security posture efficiently.



AI as a Hero

- Fortephy: An AI-powered smart contract auditor that continuously monitors contract security, offering real-time analysis and threat detection
- AI-Driven Compliance in Web3



Let's Discuss: How to Deal With AI?



3. Web3 Global Events

By **Mahdieh Amiri** (Smart Contract Engineer and Web3 Events Organizer)

Ethereum Ecosystem Events

- **DevCon:** Tech-Conferences by Ethereum Foundation
 - **DevConnect:** Events by Ethereum Ecosystem Projects and Communities
 - **ETHGlobal:** Hackathons
 - ...
-
- ❖ **Shir-Ya-Khat (Coiniran) Podcast Episodes**
 - [Hackathon Episode](#)
 - Devcon Episode: Soon



How to Participate

- **Volunteer**
- **Hacker (Developer)**
- Speaker
- Project owner
- Enthusiast
- Student
- **Scholarships**
- ...



Achievements

- Valuable **connections** (Iranian and other countries)
- Learn about new technologies and project in the ecosystem
- Improve your skills
- Hackathon prizes



Stay Connected

Feedback

Build Teams

Suggest Topics

Share Ideas

Discuss Projects

Find People