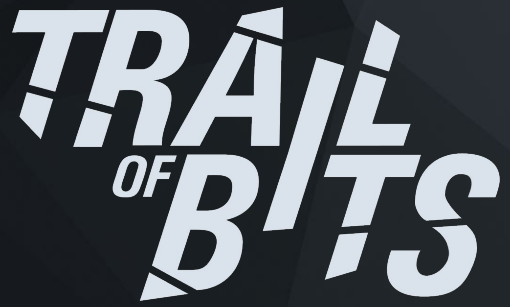

TRAIL
OF
BITS

How to become a smart contract auditor

Who am I?



- nisedo (@nisedo_)
- Founded Soliditors, the 🇫🇷 Web3Sec community
- Blockchain Security Engineer at Trail of Bits
  - We help developers build safer software
  - R&D focused: Slither, Medusa, Echidna, solc-select, ...

Why become a smart contract auditor?

Web3 security is broken

$12B

stolen since May 2016



DefiLlama.com

Web3Sec vs Web2Sec 🛡️

🥷 **Web2 hack**

↓

🗂️ **data theft**

↓

🌚 **dark web**

↓

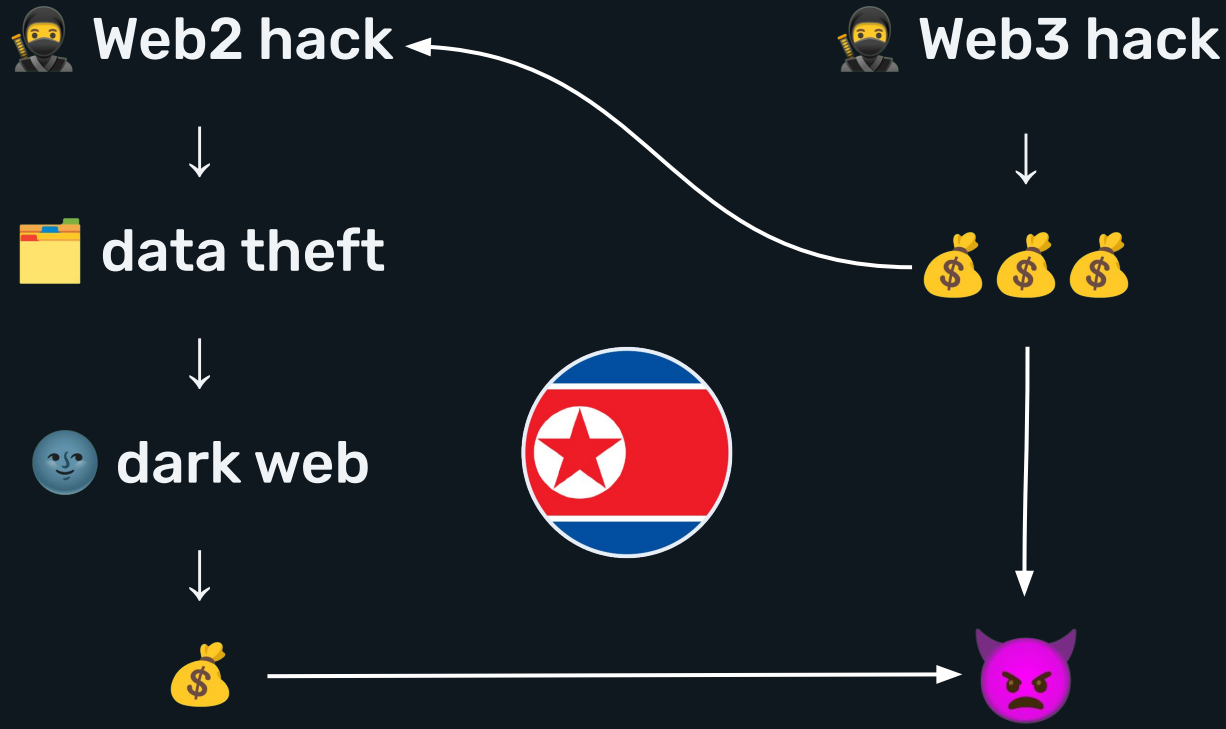
💰

🥷 **Web3 hack**

↓

💰💰💰

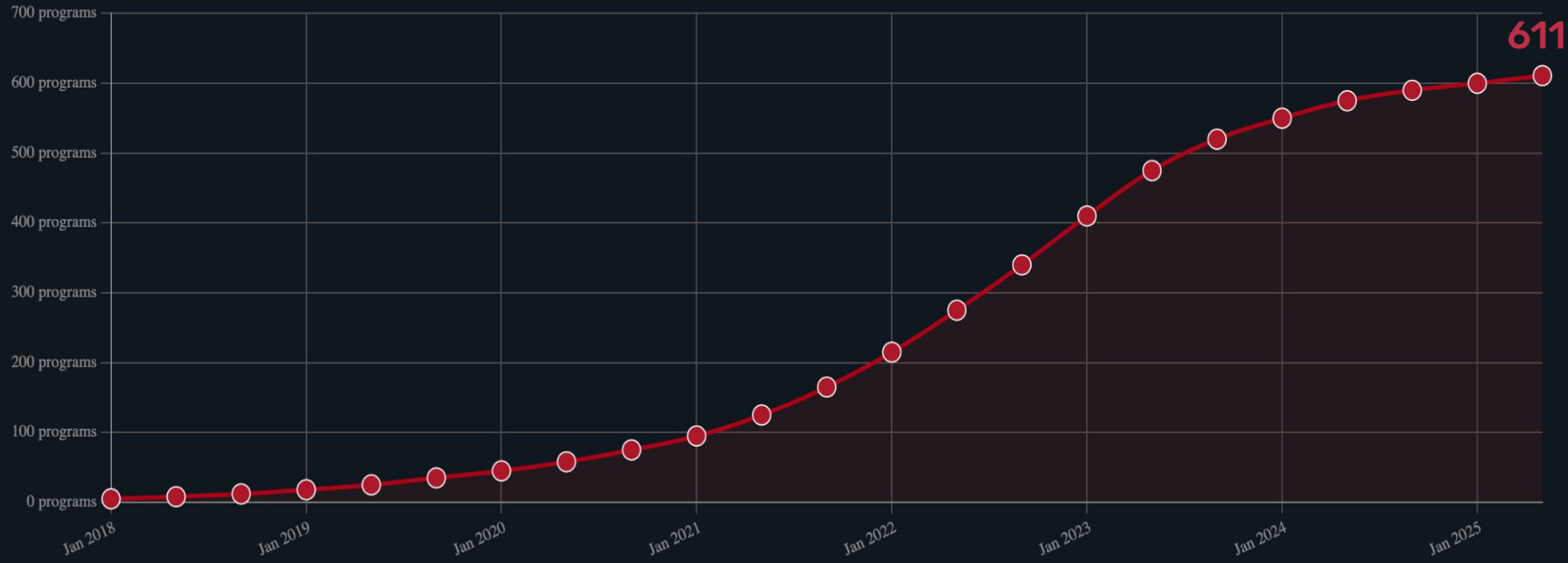
Our work actually matters 🛡️



Growing demand 📈

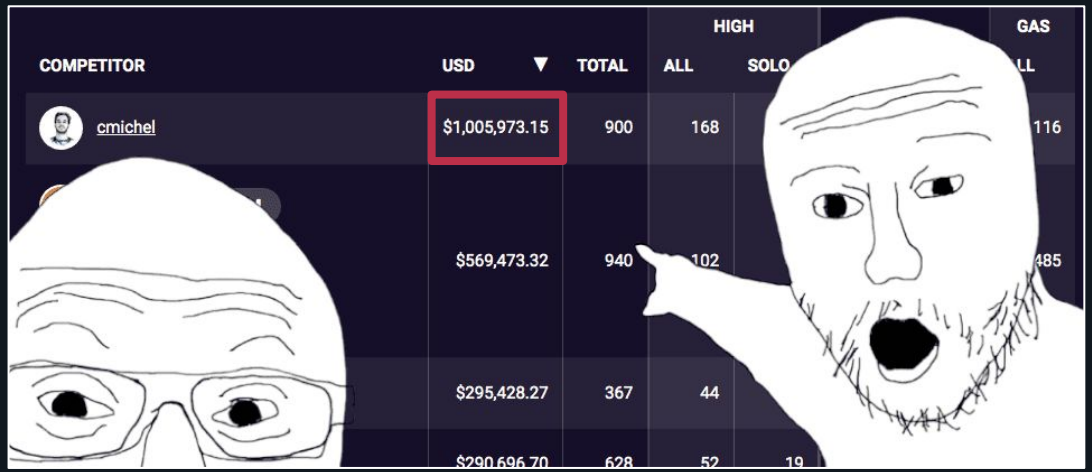
Web3 Bug Bounty Programs

Bug bounty growth across platforms (2018-2025)



Money, Money, Money 💰

1	Barracuda3172 Name	$14,439,800 Total Earnings
2	RetailDdene2946 Name	$10,020,000 Total Earnings
3	PwningEth Name	$8,000,000 Total Earnings



0x52

Security Researcher

$1.22M
Total Earnings

#3 All Time

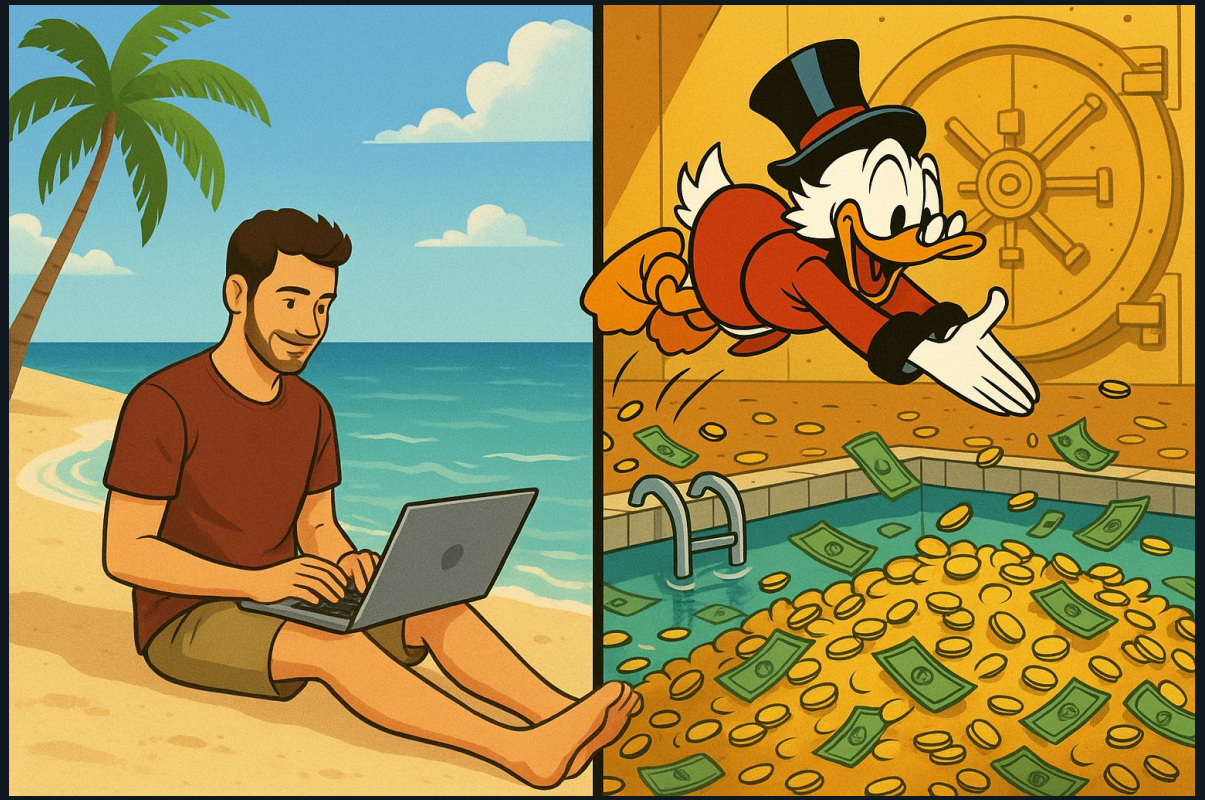
deadrosesxyz
@deadrosesxyz

proud to announce that the $1m mark was successfully crossed (and the year's not finished yet!)

a rough breakdown of the income sources:
- Contests ~$500k
- Spearbit ~$265k
- Solo audits ~$240k
- Immunefi ~40k

But...

Expectation

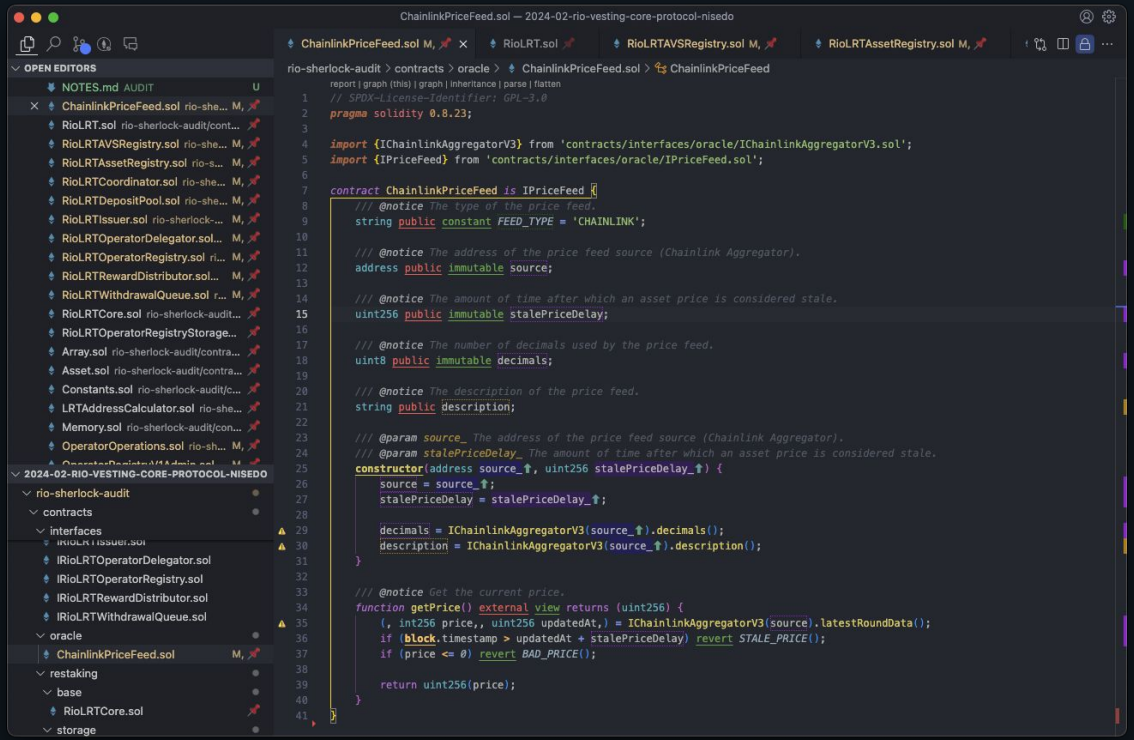


Reality



What do smart contract auditors do?

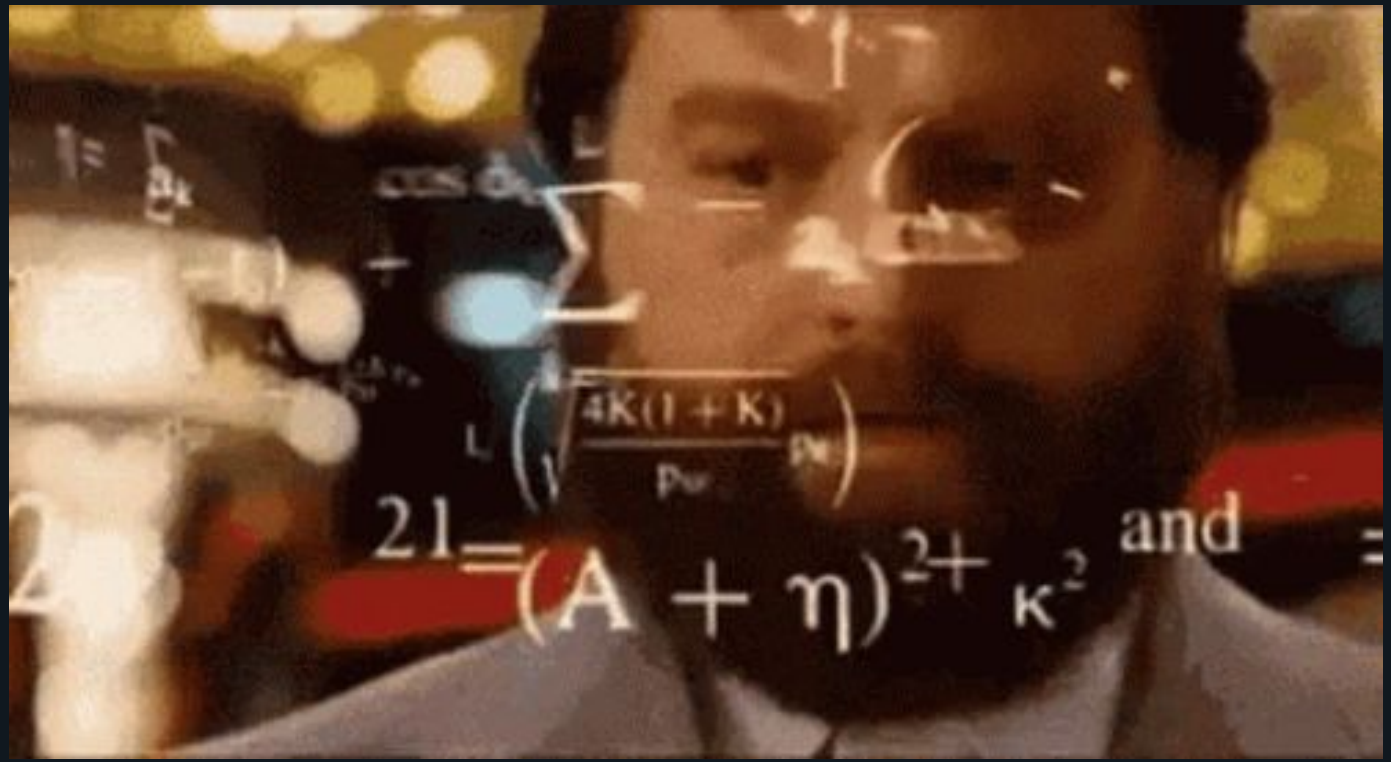
We find bugs… but how?



We get a giant puzzle



We stare at code



And we piece it together



We're advisors



Send report and move on

Advise the client on how to build safer software

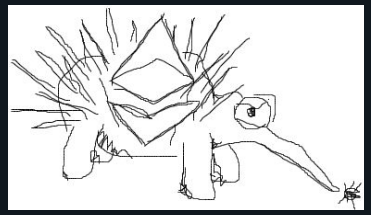
Armed to the teeth 🏹

Framework



Hardhat

Fuzzing



Medusa

Static Analysis

SLITHER

Semgrep

aderyn

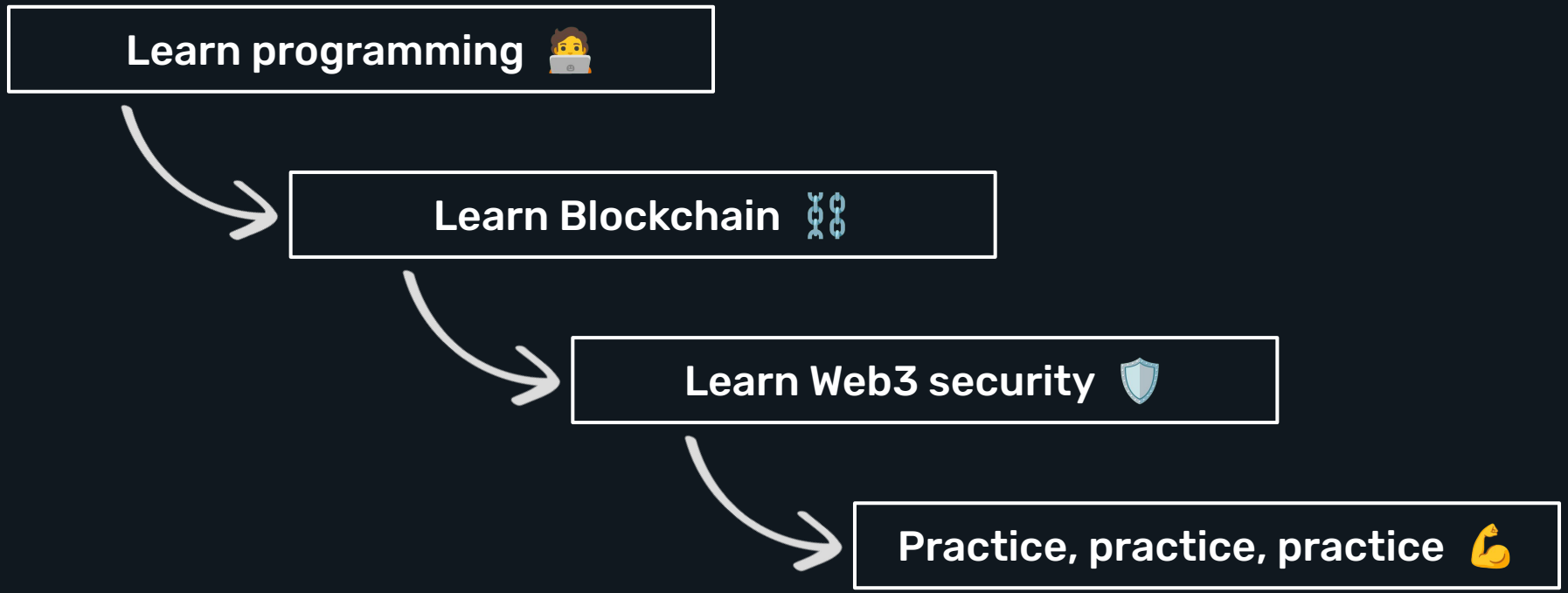
Formal Verification

Halmos

kontrol

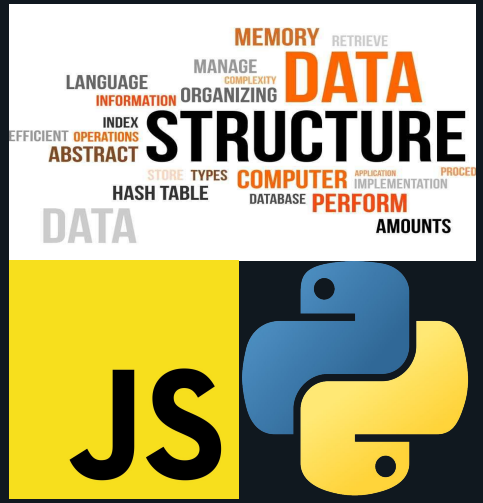
How to become a smart contract auditor?

How to become a smart contract auditor? 🎓

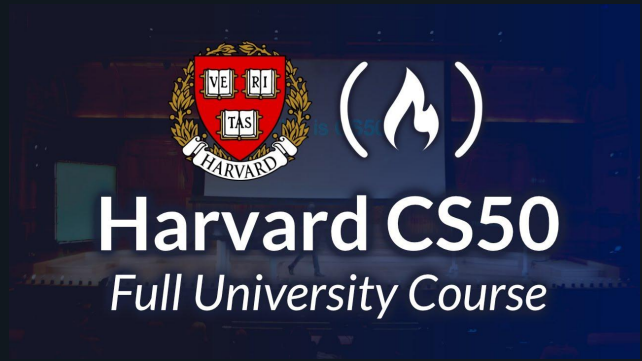


1. Learn programming 🧑‍💻

Computer Science



Harvard CS50



2. Learn Blockchain ⛓️

EVM

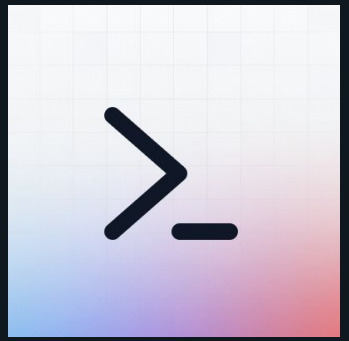


Solidity





Cyfrin Updraft



RareSkills



3. Learn Web3 security 🛡️

Solve CTFs 🚩

The Ethernaut

$DAMN VULNERABLE DEFI



ONLYPWNER

Study audit reports 📄



SOLODIT

4. Practice, practice, practice 💪

Public audit contests 🏆

DAILY WARDEN



Study audit reports 📄



SOLODIT

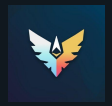
And then what?


TRAIL OF BITS
EXPERIENCED
SMART
CONTRACT AUDITOR
imgflip.

The different types of audits 🔎

Audit contests 🏆



Private audits 🕵️





Bug bounties 🏹






Audit firms 🏢






Web3 needs you 👊



The end

