ROADMAP TO SC AUDITOR

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- 1. Smart Contract Audit- Youtube: @PatricAlphaC & @CyfrinUpdraft
- 2. Mastering Ethereum Book: @gavofyork and @anntonop (github)
- 3. Ethereum Yellow paper course from @AckeeBlockchain Youtube

4. More videos/articles about EVM

- EVM Storage A Low-Level Guide To Solidity's Storage Management: Link: https://t.co/HLTAP39uRK
- Full in-depth explanation of the Ethereum Virtual Machine: Link: https://t.co/mu0fJPeLec
- A free advanced course on the technicalities of the EVM: Link: https://t.co/cijzrWPnot
- The EVM Handbook: Link https://t.co/J8fbTJchfl
- EVM puzzles: Link: https://t.co/2OEKQX7RAi
- EVM Opcodes: Link: https://t.co/VGSDeyEFGP
- Reversing The EVM: Raw Calldata: Link: https://t.co/ysRFZ5EJYi
- EVM: From Solidity to byte code, memory and storage Link: https://t.co/SNiHHqS2xp
- 5. Go through the <u>@TheSecureum</u> Bootcamp for Smart Contract auditing. Blog Article, Videos and Quiz: https://t.co/3FTAiOrAfx
- 6. Start reading audit reports -
 - @SoloditOfficial: https://t.co/7REBeNznXA
 - @code4rena: https://t.co/zUXFhgbVPs
 - @sherlockdefi : https://t.co/uYOTjlxrjY
 - @ShieldifySec: https://t.co/uYBET0psMr

7. You need to learn the most Common Attack Vectors

- List of Some Attack Vectors/Smart Contract Vulnerabilities! https://twitter.com/ShieldifyAnon/status/1730617426096640284?s=20
- Learn EVM Attacks https://t.co/b8NHeqOdcG
- SCV-List https://t.co/upyLGKRnLg
- Smart contract attack vectors: https://t.co/4litsfF5wV
- A Historical Collection of Reentrancy Attacks https://t.co/ZsSBSy7ESq
- List of 100+ DEFI Attacks + Hacks Analysis: https://t.co/dmziUJ8u5S
- List Of 18 Defi Vulnerabilities + Code Examples : https://t.co/SF2eJiBaEd

- Smart Contract Security Verification Standard https://t.co/3nHnkaoWa3
- Ethereum Smart Contract Security Best Practices: https://t.co/RRoMzwpPKc
- The Solcurity Standard: https://t.co/vOWRmlXu5X
- Web3 Security Library https://t.co/Nn1EttPqYX
- List of Bridge Hacks https://t.co/ETSN1ZCmKT
- DeFi Attack Vectors https://t.co/RNuoYR9FdL
- Smart Contract Vulnerabilities https://t.co/jU1GHBJGpL
- Solidity security blog https://t.co/4YxGXgggKD
- Top 10 DeFi Security Best Practices https://t.co/DmEKxvTbQO
- DeFi Slippage Attacks https://t.co/EJwqGZXWgX
- Lending/Borrowing DeFi Attacks https://t.co/cjFr91Lgeu
- DAO Governance DeFi Attacks https://t.co/GDadbarki0
- Precision Loss Errors https://t.co/pkt3Y1La5C
- NFT attacks https://t.co/7PbdZAKe2r
- MEV https://t.co/a7kAOzHvnO-
- 6 Critical Vulnerabilities https://t.co/R6FpEqArDC
- 22 Vulnerabilities https://t.co/zVZm3Th2Qm
- You Have To Know These 13 Critical Liquidation Vulnerabilities https://t.co/umw63tZFt2
- List of Top 28 DeFi Attack Vectors https://t.co/2NdVJOAt6W

EXTRAS

List of Some Attack Vectors/Smart Contract Vulnerabilities

- Reentrancy
- Reentrancy via Modifier
- Read-Only Reentrancy
- Cross-Function Reentrancy
- Cross-Contract Reentrancy
- Front-Running
- Front-Running Unprotected withdraw
- Front-Running Sandwich attack
- Front-Running ERC20 approval
- Front-Running Signatures
- Back-Running
- Flash-Loan Governance Attack
- Flash-Loan Price Attack
- Denial Of Service (DOS) by complex fallback function
- Denial Of Service (DOS) by gas limit
- Denial Of Service (DOS) by non-existent address or malicious contract
- Floating Point Arithmetic
- ECDSA Signature malleability
- ECDSA Signature replay
- Replay Attack
- Price Oracle Manipulation
- Cross-Chain Bridge Manipulation
- Initial Supply Mint Issue
- Divide before multiply

- Integer Underflow
- DeFi Slippage attack
- Amplification Attack Double Spending
- Malicious Honeypot
- Unsafe Delegatecalls
- Loops Gas Limit
- Phishing With Improper Authorization
- Unexpected Ether With Forcibly Sending Ether
- Block timestamp Manipulation
- Unchecked return values
- Insecure Randomness
- Proxy Storage Collision
- Strict equalities
- Timestamp Dependence
- Use of Deprecated Functions
- Requirement Validation
- Absent modifiers
- Force Feeding
- Rounding Down To Zero

8. Start doing some CTFs (Optional)

- Ethernaut by <a>@OpenZeppelin
- -> https://ethernaut.openzeppelin.com
- Damn Vulnerable Defi by @tinchoabbate
- -> https://damnvulnerabledefi.xyz
- Capture the Ether by @smarx
- -> https://capturetheether.com
- Paradigm CTF by @paradigm ctf
- -> https://ctf.paradigm.xyz

9. Smart Contract Auditing Methodology & Process

- Process https://twitter.com/ShieldifyAnon/status/1653126078578171922?s=20
- Methodology mindmap https://t.co/SQF4Jxnxn8
- 10. Smart Contract Audit Checklist (This is only if you like using checklists) @SoloditOfficial

checklist - https://solodit.xyz/checklist

- SmartContracts-audit-checklist https://t.co/cdfocNvcsS
- t11s checklist https://t.co/vOWRmlXu5X
- The Ultimate 100+ Point Checklist Before Sending Your Smart Contract for Audit https://betterprogramming.pub/the-ultimate-100-point-checklist-before-sending-your-smart-contract-for-audit-af9a5b5d95d0

11. `	You	must	read	these	papers if you're auditing	
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1. Lending Protocol

- Lending and Borrowing: Link: https://t.co/adUsGzQvK4
- Liquidations: Link: https://t.co/ASzppXFkyi
- Rewards: Link: https://t.co/exPB5taUhe
- Typical vulnerabilities: Link: https://t.co/W7lh0v8WQ3
- Attacks Checklist: Link: https://t.co/GDadbarki0
- Vectors of Attack and Preventing Potential Issues: Link: https://t.co/W71euMcbtR

2. AMM Protocol

- Decentralised Finance and Automated Market Making: Link:

https://t.co/axHffm5TmV

- AMM Integration Tips: Link: https://t.co/DjQrXCYCvX
- Understanding the Vulnerabilities: Link: https://t.co/KARypoKnSW
- Typical vulnerabilities: Link: https://t.co/q7kf0ULahU
- DeFi Slippage Attacks: Link: https://t.co/EJwqGZXWgX
- Generalizing knowledge on DEXs with AMMs -Part I: Link: https://t.co/CYJSUreJol
- Generalizing Knowledge on DEXs with AMMs -Part II: Link: https://t.co/oT3D2cOHGe

3. Liquid Staking protocol

- Staking withdrawals: Link: https://t.co/wfoeJQhl47
- How Do Ethereum Withdrawals Work: Link: https://t.co/X3tlMakFfq
- EIP-4895: Beacon chain push withdrawals as operations: Link: https://t.co/fwCKRRkURg
- Ethereum Distributed Validator Specification: Link: https://t.co/QNgKgockaD
- Maximal extractable value (MEV): Link: https://t.co/jCUvnmCUw2

4. Cross Chain Protocol(LayerZero) protocol

- Best Practice: Link: https://t.co/jwu2XrwvP4
- A Deeper Look Into DeFi's Cross-Chain Tech: Link: https://t.co/oetqTFQDON
- LayerZero Omnichain Contract Examples: Link: https://t.co/8iY1X0WHKN
- LayerZero Integration Checklist: Link: https://t.co/JZhPW8CPZC
- LayerZero's Cross-Chain Messaging Vulnerability Link: https://t.co/iZovtVC7gt
- Cross-Chain Security with LayerZero Labs: Link: https://t.co/wlO0lc9xby
- UA Configuration Lock: Link: https://t.co/sGobPIPiEm

5. Cross-chain/Bridge

- Open problems in cross-chain protocols Link: https://t.co/nGlqpU1WG2

6. Protocol integrates with external Oracle smart contracts

- All about Oracles: Link: https://t.co/aVusAT9DVI
- The Dangers of Price Oracles in Smart Contracts: Link: https://t.co/1SluqHMR1a
- TWAP Oracle Manipulation Risks, Mudit Gupta: Link: https://t.co/gCXMJHdMuA
- TWAP Oracles After the Merge, Mark Toda: Link: https://t.co/VjON9qs0NG
- So you want to use a price oracle: Link: https://t.co/M3QRszIA7U
- Pricing LP tokens | Warp Finance hack: Link: https://t.co/js90u5J2O9
- Uniswap V3 tick price manipulation: Link: https://t.co/ROBADP3aBR

- Chainlink Oracle Security Considerations: Link: https://t.co/u7T6VoijGc

7. ERC-4337(Account Abstraction)

- All About ERC-4337 (Account Abstraction): Link: https://t.co/FRSOMjHc4K
- Account Abstraction Security Guide: Link: https://t.co/CaU0faKjfu
- ERC4337 Audit Checklist: Link: https://t.co/g5ymwpyzHG

8. ZK (Zero Knowledge) Protocol

- A curated list of awesome ZK resources, libraries, tools and more: Link: https://t.co/cr8hPQ123V
 - Security Reviews: Link: https://t.co/BZ5WhCZhqY
 - ZK Bug Tracker Common Vulnerabilities: Link: https://t.co/GYhHcq7Vky

9. NFT protocol

- NFT Attack Vectors: Link: https://t.co/hMAKb2gInK
- NFT attacks: Link: https://t.co/7PbdZAKe2r

10. Vault Protocol

- Check if the user's balance is updated based on funds received and not the funds declared to be sent
- If there is a Vault in the system, then users' funds are stored on it Check if the depositing rounds down the assets and withdrawing rounds up
- Check if shares are distributed in proportion to the user's deposited funds Check that the vault is allowed to transfer tokens only from msg.sender to prohibit stealing from users who approved the vault contract

12. It's time for some practice and earning money 1.

@code4rena

- audits/contests 2.

@sherlockdefi

- audits/contests 3.

@HatsFinance

- competition + bug bounty platform 4.

@CodeHawks

- audits/contests 5.

@cantinaxyz

- audits/contests 6.

@immunefi

- bug bounty platform 7.

@HackenProof

- bug bounty platform

13. Bonus some books + Foundry Resources

- DeFi and the Future of Finance - https://t.co/1smIRe4IND

- How to DeFi: Advanced https://t.co/p1Hx7NGmkM
- The Auditor book- Sherlock and Code4rena findings https://theauditorbook.com
- Amazing List of Foundry Resources https://t.co/uwnt4wEMLr