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Ethereum Smart Contract Auditor Roadmap

- Smart Contract Auditor
  - Step 1
    - Blockchain Fundamentals
      - Mastering Ethereum
      - Proof of Work vs Proof of Stake
  - Step 2
    - Solidity Fundamentals
      - Solidity Documentation
      - Smart Contract Programmer - Solidity 0.8
      - Secureum Solidity 101
      - Secureum Solidity 201
  - Step 3
    - Gas Optimizations
      - Aggregated Tricks by pcaversaccio and Harikrishnan Mulackal
      - Kaden: Gas Optimization Tips
      - Juan: Advanced Gas Optimizations
  - Step 4
    - Smart Contract Testing/Debugging
      - Hardhat Docs
      - Better Programming Hub
      - Code Eater - Hindi
      - Foundry
      - Tenderly
  - Step 5
    - Token Standards - ERC 20, 721, 777, 1155, 4626
  - Step 6
    - Openzeppelin Helper Libraries/Contracts
  - Step 7
    - Upgradeable Contracts
      - Smart Contract Programmer - Upgradeable Contracts
      - Smart Contract Programmer - Risks of Upgradeable Contracts
      - Different Proxy Patterns - EIPs 897, 1822, 1967, 1538, 2535
  - Step 8
    - Smart Contract & Solidity Attack Vectors
      - Secureum Security Pitfalls 101
      - Secureum Security Pitfalls 201
      - SWC Registry
      - Smart Contract Programmer - Hack Solidity
      - Kaden: Smart Contract Attack Vectors
  - Step 9
    - CTFs
      - CTFs & WriteUps - A curated list (for reference)
      - Ethernaut
      - Capture The Ether
      - Damn Vulnerable DeFi (After Completing Step 10)
  - Step 10
    - DeFi Deep Dive
      - Finematics - DeFi
      - Smart Contract Programmer - DeFi
      - Protocol Deep Dives: Uniswap v2/v3, Compound, Curve, Aave, Balancer
      - Stablecoins => Algorithmic Stablecoins
      - Staking Rewards, Vaults
  - Step 11
    - DeFi Attack Vectors
      - Flash Loan => Price Oracle Manipulation
      - Front-Running => Sandwich attacks
      - Rug Pulls => Unlimited Token Allowance
  - Step 12
    - Postmortems & BugFixes
      - Immunefi
      - BlockSec
      - SlowMist
      - Rekt News
      - PeckShield
  - Step 13
    - Report Reading
      - Secureum Audit Findings 101
      - Secureum Audit Findings 201
      - Consensys, Trail of Bits, Openzeppelin, QuillAudits
  - Step 14
    - Security Standards & Checklists
      - SCSVS
      - Rari-Capital Solcurity
  - Step 15
    - Arsenal
      - Remix
      - VS Code IDE
      - Slither
      - Mythril
      - Manticore
      - Echidna
      - Surya
      - Scribble
      - BlockSec ETH/BSC Tx Analysis
      - ethtx ETH Tx Analysis
  - Step 16
    - Continuous Learning and Research
      - Ethereum Yellow Paper
      - Ethereum Improvement Proposals (EIPs)
      - Eth Research
      - Newsletters: Blockthreat, HashingBits, etc.
      - Join Security Communities on Discord: Immunefi, Secureum, Blockchain Pentesting, Eth Security, Eth R&D
      - Be Active on Twitter & follow up with latest research, and attack vectors

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