WINTER ARC – Web3 Development Roadmap (30 Days)

Challenge Overview

The Web3 Development track introduces participants to blockchain fundamentals, smart contracts, and decentralized applications (dApps). The focus is on understanding concepts clearly while building small but meaningful Web3 components.

30-Day Learning Roadmap

- Days 1–3: Web3 overview, blockchain basics, and decentralization concepts
- Days 4–6: Ethereum ecosystem, wallets, keys, and test networks
- Days 7–9: Smart contracts introduction and Solidity basics
- Days 10–12: Functions, modifiers, events, and error handling in Solidity
- Days 13–15: Token standards (ERC20, ERC721) and token creation
- Days 16–18: NFTs and smart contract deployment
- Days 19–21: Web3 libraries (Ethers.js / Web3.js) and contract interaction
- Days 22–23: dApp architecture and frontend–blockchain integration
- Days 24–25: Gas optimization and smart contract security basics
- Days 26–29: Web3 mini project planning, development, and testing
- Day 30: Deployment, demo, and reflection

Posting & Submission Rules (IMPORTANT)

• For all TECH challenges (Web3 included), daily task completion MUST be posted on LinkedIn or X (Twitter).
• Tag the official Winter Arc / Matrix handle and use the official hashtags.
• Screenshots of deployed contracts, GitHub repos, demos, or learning summaries are acceptable.
• Submissions without social proof will not be eligible for XP.

What to Post Daily

• Web3 or blockchain concepts learned today
• Smart contract snippets or deployment screenshots
• Gas or security insights discovered
• One key takeaway from decentralized systems

Strategies to Win the Web3 Track

• Focus on understanding fundamentals over hype.
• Always deploy and test contracts on testnets.
• Be careful with private keys and security practices.
• Write readable and well-documented smart contracts.
• Learn from failed transactions and gas usage.

Fair Play & Discipline

• All Web3 submissions must be original and ethical.
• Any use of templates or boilerplates must be disclosed.
• AI assistance must be disclosed clearly.
• Matrix reserves the right to revoke XP, ranks, or rewards.