Amalnath Sathyan

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SKILLS

Languages: Solidity, Javascript, Typescript, SQL, Rust

Frameworks & Tools: React.js, Next.js, TailwindCSS, Smart Contracts, Ethers.js, Web3.js, Hardhat, Truffle, Mythril, Slither.js, ThirdWebSDK, Unit Tests - Chai.js, Mocha.js, Alchemy, Infura, Moralis, Snark Apps - o1.js(fka Snarky.js), livepeer.js, IPFS, mongodB,Redis, AWS, Docker

Consensus Algorithms: Bitcoin, Ethereum, Ouroborus(Cardano), CKB Consensus, BFT, PoS, DPoS, PoA, Ouroborus-Samsika(Mina Protocol), CometBFT(Cosmos), SCP-Stellar Consensus Protocol

Ethereum & EVMs: Ethereum Protocol, EIPs&ERCs: ERC20(Token), ERC721(NFTs), ERC 1155(NFTs), ERC2535(Diamonds, Multifacet Proxy),ERC5006(Rental NFTs), ERC4337(Account Abstracton), EIP1559(Fee Market Change)

Blockchain Concepts & DeFi Tools:DEX-AMMs(Uniswap Protocol-v2,v3&v4,Sushiswap,PancakeSwap,Kyberswap,TraderJoe),Lending Protocols(AAVE), Synthetics And Derivatives(Synthetix, GMX), NFT Marketplace(Opensea, Blur), LSD-Liquid Staking Derivatives(Lido, Stride, Radiant Capital, EigenLayer etc.), Cryptography Primitives(ECDSA,Keccak etc.),DAOs, DeFi Security(Vulnerabilities,Attack Vectors,Fuzzing-Echidna, Ethernaut), zk-Proofs(Circuits,Snaps) Tokenomics, Stable Coins(collaterized, algorthmic, CBDCs, DAI, Curve, FRAX), DAOs & On-chain Governance(MakerDAO, Snapshot.org) Gas Optmisation,Layer1s(EVMs-BNB Chain,Evmos,Solana, Polkadot, Avalanche -C chain, Subnets, Hedera, Cosmos,Internet Computer, Move Ecosystem(Aptos&Sui)),Scaling Solutions(Layer2s and Sidechains:Optmistic Rollups(Optimism,Arbitrum One,Base etc.),zk-Rollups(SNARKs(zkSync,Linea, polygonzkEvm etc.), STARKs(Starknet)),Sidechains(Polygon PoS), Mantle Network, Cross-chain(Layerzero Protocol, Zetchain, Uniswap Xswap, Sushiswap), Data Storage(IPFS, Filecoin, Arweave), Analytics(Dune), 0xProtocol- 0xAPIs, Web3 Socials(Lens Protocol, DeBank L2), Web3 IDs(Gitcoin Passport, Bright ID, Kleoverse ID,ENS)

WORK EXPERIENCE

PIT Solutions PVT LTD   Technopark, Thiruvananthapuram, Kerala
Blockchain Developer   *Sep 2021 – Present, Full-time*

- Worked on various PoCs which includes NFT Marketplaces, Certificate-as-NFT Generator, AMMs, Flashloan Contracts etc.
- Being the first joinee of the Blockchain Team, I had enough opportunities for research and exploring Cryptography, Blockchain and Relevant fields