Anjanay Raina

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WORK EXPERIENCE

Independent Smart Contract Auditor

July 2023 - Present

- Analyzed codebases using Slither, Solidity metrics, and Foundry to identify 10+ Medium, Low-risk, and QA vulnerabilities and write stellar POC's. Identified gas-saving measures resulting in a reduction of gas costs.
- · Incorporated tools such as **Solodit**, **Aderyn**, and **Audit Wizard** to identify contract vulnerabilities. Deployed risk mitigation strategies to ensure the security of the smart contracts.
- · Achieved a ranking among the top 300 worldwide on the C4 weekly leaderboard being currently ranked at 345.

Natwest Group | TI Intern

May 2023 - July 2023

- Developed and implemented **Oracle Business Intelligence** functionalities to transform complex and unfiltered data into visually appealing reports.
- · Added **Bursting Queries** for the reports to schedule the reports to the respective clients automatically, resulting in a **100 Percent** reduction in delivery times.
- Audited the reports and created the design and execution of specialized unit tests and scenarios to assess report functionality against CGL10 and CGL76 databases, guaranteeing the validity and accuracy of reports.

DLT Labs | Student Researcher

January 2023 - July 2023

- · Conducted research on Blockchain Technologies employed in the **Telecommunications** industry, with use cases.
- Led a team in developing a **Two-Layered Blockchain Architecture: Data Storage and Authentication Layer** for mobile device theft prevention. Also wrote a **Research Paper** for the solution submitted to **IEEE Ants**.
- · Set up **Hyperledger Fabric**, **Docker**, and wrote **Contracts** to simulate the proposed method of preventing mobile device theft, reducing the resolution time by 100 times compared to CEIR.

Chatbuck | Blockchain Developer

January 2022 - August 2022

- Played a key role in developing a **Layer 2 solution** for the messaging application and the **Litepaper**.
- · Leveraged **Infura** to integrate **Web3** library, improving **Android app** UI; emphasized user experience and interface design, leading to a 10 Percent increase in user retention for the messaging application.
- Developed and deployed an **ERC-20** token solution for ChatBuck, streamlining payment processes and facilitated secure and efficient transactions for **50,000+ users**.

PROJECTS

PerpetualVault

Github

- Designed **Perpetuals Position** protocol, implementing **ERC4626**-compliant smart contracts for liquidity, scaling positions, and collateral management.
- Integrated a custom ERC20 token environment (WBTC, USDC) with a unique gas stipend system for Liquidators
 and engineered a fault-tolerant Double Oracle system using Chainlink to bolster real-time pricing data reliability.
- Conducted exhaustive security audits and Invariant Testing and Fuzz Testing using Foundry, leveraging Slither
 and Adervn for vulnerability scans, ensuring security and fortifying against potential threats.

Decentralized Journalism Platform

Github

- · A Decentralized Journalism platform with the aim of privacy and freedom of expression in journalism.
- Programmed Solidity contracts (ERC20, ERC721, Access Control by OpenZepplin) for anonymous blog posting, management, and integrated Superfluid for Real-Rime Token Streaming.
- Engineered a robust **NFT** minting contract, enabling the creation of unique blog NFTs; stored and retrieved blog metadata on **IPFS**, ensuring seamless access and preservation of content details.

Everything About Product

Github

Dec

- · A Project for the NAVH Hackathon, deploying smart contracts via **Infura API** and **Truffle**. Connected the frontend to the blockchain using **Ethers.js** and **Metamask SDK**.
- · Implemented a robust smart contract with OpenZeppelin's **Access Control** and **Counters** libraries. Incorporated advanced tools like **Solidity Visual Developer**, **Surya**, and **Slither** to enhance security, identify vulnerabilities, and optimize gas usage.

SKILLS

Computer Languages

Solidity, Yul, Move, Java, JavaScript, Python, SQL, Typescript

Platforms & APIs Libraries/Frameworks/Tools Remix IDE, Hyperledger Fabric, Alchemy, Metamask, Infura, Docker, Code4rena, Sherlock, OpenZepplin, Superfuild, Foundry, Slither, Solidity Metrics, Hardhat, EthersJS, ReactJS

EIP/ERC

20, 721, 777, 1155, 4625, 2981, 165

AWARDS AND POSITION OF RESPONSIBILITY

Aptos Winter School IIT Bombay, Got Selected among a pool of 60 students in India to attend winter school 2023 - Dec 2023

GDSC Blockchain Mentor, Got Selected as GDSC Core Member and Blockchain Mentor **Team Tech Lead**, Got selected as the Tech Lead for Research Work in DLT Labs

August 2023 - Present January 2023 - July 2023

Binance Campus Builder, Got Selected as Campus Ambassador for Binance

December 2022 - April 2023

EDUCATION

Indraprastha Institute of Information Technology, Delhi

B.Tech (Computer Science & Biosciences)

January 2021 - July 2024