HERMAN EFFENDI

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About Me

I'm Herman, Someone who is intrigued by the potential of smart contracts in blockchain technology. A motivated and passionate individual with a strong foundation in blockchain technology and smart contract development, seeking an internship opportunity to further develop my skills and contribute to innovative blockchain projects.

Currently I'm pursuing a bachelor degree in data science technology. With knowledge from these diverse fields, I aim to build secure and efficient smart contracts from multiple perspectives. I have a dream to make all of the smart contracts in the world independently from exploitation and become top 1% smart contract engineer in the world.

Skills

Programming Languages: Solidity, JavaScript (ExpressJs, ReactJs), Python
Blockchain Platforms: Ethereum
Tools and Frameworks: Foundry, OpenZeppelin Contracts, Chainlink Price Feed
Other Skills: Smart Contract Development, Unit Testing, Integration Testing, Fuzz/Invariant Testing, Preparing smart contract for auditing
Language : Indonesia (expert), english (intermediate)

Projects

Foundry DeFi StableCoin

- **Purpose**: Developed a decentralized stablecoin using the ERC20 standard.
- **Key Features**: Mintable and burnable functionalities, over-collateralization model, automated liquidation process.
- **Techniques Used**: Fuzz testing, invariant testing, mock contracts for off-chain development and testing.

Foundry NFT

- **Purpose**: Created a Non-Fungible Token (NFT) using the ERC721 standard.
- **Key Features**: Virtual overrides for token URI generation, storing SVG images 10% on-chain, IPFS for decentralized image storage.
- **Techniques Used**: Leveraging IPFS for efficient image storage, deploying smart contracts.

Foundry Upgradeable Smart Contract

- **Purpose**: Designed and implemented a minimalistic upgradeable smart contract architecture.
- **Key Features**: UUPSUpgradeable pattern, comprehensive unit tests, manual interactions for contract upgrades.
- **Techniques Used**: Developing unit tests, executing manual interactions for contract upgrades.

Achievements

- **Notable Project**: Developed a decentralized stablecoin using the ERC20 standard, incorporating advanced features.
- **Capture The Flag**: Almost completing CTF from *Damn Vulnerable Defi*

Education

Universitas Airlangga - Data Science July 2022 - Present

Another Resource

Github, Personal Website