JAYAKUMAR S

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Technical Skills

Languages: Solidity, JavaScript, Python, Node js, MySQL, MongoDB, TypeScript, React js, Next js, HTML5, CSS3.
Tools: GitHub, Web3 js, Ether js, Web3 py , Truffle, Foundry, Hardhat , Brownie, Ganache , Remix , Slither, Pandas .

Experience

Guardain Link   **mar 2021 - present**
Blockchain Developer   *Chennai,Tamilnadu*
- **Research and Implementation of Raffling,EIP-998,Dutch auction,ERC-721-A,R,L** .
- NFT CI/CD pipeline **Automated** scripts for **Metadata generation,Image stitching,Rarity plots,Marketplace.**
- **Designing architect** for **Smart Contracts** and **researching new EIP's and ERC's** .

D-Frame   **mar 2021 - present**
Blockchain Developer - Part Time   *Work From Home*
- **Head of research in Blockchain storage solutions**
- Providing viable blockchain solutions and contributing in backend coding.

Freelancing   **mar 2021 - present**
Smart Contract Consultant/Developer/Auditor
- **Providing Blockchain consulting and Smart Contract Development and Auditing.**

Blockchain App Factory   **Sep 2021 - Nov 2021**
Blockchain Developer Intern   *Chennai,Tamilnadu*
- Engaged with Internal **Smart Contract Auditing** and **Research** of new frameworks and tools.
- Proficient with **Automation testing , Attack-Vector Smart Contracts and Security tools.**
- **Decreased deployment fee and gas fees by 30%** by optimizing and restructuring code flow.
- Developed automated script in Typescript which queried **10000+ random numbers continuously without any breakage** with help of **ChainLink oracle in Polygon Mainnet.**
- Engaged with **Token Bridge(ETH-BSC)** with Burn and Mint Interfaces and utilized **Web3 js** for **listening events**.

BYTEX (Startup)   **Aug 2021 - Sep 2021**
Blockchain Developer Intern - ⊕   *Remote*
- Created Two **ERC20 Tokens and a De-fi Staking smart contract** entirely from scratch.
- Integrated above mentioned smart contracts with an attractive **front-end with a Complete test suite.**
- Designed the **tokenomics** for the above mentioned project and researched payment gateway implementation

Projects

Proof-Of-Stake(Prototype) - ⊕
- **P2P connection established,Nodes automatically sync with each other** when a transaction is posted.
- **Implemented Block validation,Signature Validation,Transaction Validation and POS consensus protocol.**
- **Created API endpoints for Blockchain state, Info , Transaction pool and Transaction.**

Marketplace(Online Course Platform) ⊕ **-** Live
- Working with tech stack of **Truffle , Next js , Tailwind** to upgrade traditional platform with a **web3 view**.

NFT-Marketplace ⊕ **-** Live
- NFT Marketplace with all the basic features deployed on the polygon testnet.[**Hardhat,Ether js,Next js,Tailwind**].

On-chain Generative NFT ⊕
- Built **Algorithms for generating svg's** which are placed **inside** the **smart contract** that is interpreted off-chain.

Upgradable Smart Contracts ⊕
- Upgrading smart contracts using the **UUPS , DiamondUUPS** and **Clone** methods in **Factory implementation**.

WEB 2.0 Projects:
- **Weather Application** ⊕ **-** Live : Provides weather forecasts using **mapbox** and **weather-stack**.
- **Chat Application** ⊕ **-** Live : Online chat application using **WebSocket**.(Club House Concept).
- **Task Manager Application** ⊕ : created Backend end for full stack application using **MongoDB**.