

# JAYAKUMAR S

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## Technical Skills

**Languages:** Solidity, JavaScript, Python, Rust(intermediate).

**FrameWorks:** Node js, Next js(intermediate), Web3 js, Ether js.

**Tools:** Truffle, Foundry, Hardhat, Brownie, Ganache, Remix, Slither.

## Experience

### GuardianLink

Mar 2021 - Present

*Blockchain Developer*

*Chennai, Tamilnadu*

- **Research and Implementation of Raffling, EIP-998, Variety of Dutch auctions, varieties of ERC-721.**
- **Solving CTF's like Damn Vulnerable Defi, Solc challenge and Understanding how EVM works in depth.**
- **NFT CI/CD pipeline Automated scripts for Metadata generation, Image stitching, Rarity plots.**
- **Designing architect for Smart Contracts and researching new EIP's and ERC's .**

### Freelancing

Mar 2021 - Present

*Smart Contract Consultant/Developer*

- **Providing Blockchain consulting and Smart Contract Development.**

### D-Frame

Mar 2021 - May 2021

*Blockchain Developer - Part Time*

*Remote*

- **Engaged with the Research of Blockchain storage solutions**
- **Engaged with the Research of data collection via plugins and websites.**
- **Mentored web2 developers transition towards web3.**

### 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

Aug 2021 - Sep 2021

*Blockchain Developer Intern - [Github](#)*

*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) - [Github](#)

- **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) [Github](#) - [Live](#)

- **Working with tech stack of Truffle , Next js , Tailwind to upgrade traditional platform with a web3 view.**

### NFT-Marketplace [Github](#) - [Live](#)

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

### On-chain Generative NFT [Github](#)

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

### Upgradable Smart Contracts [Github](#)

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

### WEB 2.0 Projects:

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