

Harsha Singamshetty

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WORK EXPERIENCE

Rapid Innovation

Goa, India

Blockchain Developer

Jun 2021 - Present

- Led and managed the **Blockchain** team for the "**Dibz**" project, an innovative online stock price prediction game platform, ensuring seamless collaboration and timely project delivery.
- Single-handedly designed, developed highly secure **Smart Contracts**, which passed internal audits with **zero security vulnerabilities**, and successfully deployed it on the Binance Smart Chain, ensuring the safety and trustworthiness of the platform.
- Demonstrated expertise in blockchain development by implementing an **Upgradable Proxy** using the **UUPS** pattern. Which allowed for **efficient upgrades**, ensuring **future scalability** and adaptability of the Smart Contracts.
- Conducted **extensive testing** with a comprehensive test suite, achieving an impressive **test coverage** of over **98%** to guarantee the robustness and reliability of the codebase.
- Utilized the **Graph protocol** to create and implement Subgraphs for efficient **indexing** of the "Dibz" project's smart contracts, improving data accessibility and **query performance** for the platform's users.
- Contributed to both the Blockchain and **Backend** teams on the "Orasis" project, a **token distribution** platform deployed on the Polygon chain, while using **NestJS** for the backend development.
- Innovatively implemented a **Merkle tree** approach to optimize the distribution of tokens, ensuring **efficient** and secure **airdrops** to platform users, demonstrating a strong commitment to enhancing user experience.
- Collaborated with a cross-functional team to **integrate blockchain** technology with the **backend**, fostering a seamless connection between both components and facilitating the successful deployment on the **Polygon** chain.
- Developed and maintained backend microservices for the internal product built for meetings/calls using **AI "Arcadia"**, focusing on the creation of admin and user **Microservices** using NestJS.
- Implemented efficient communication between microservices using **gRPC** methodology.
- Developed smart contracts for the **DeFi** project "Funtico" utilizing the **Foundry** framework.
- Built the Voting Escrow contracts, forked from **Velodrome V2 Finance**, to enhance the project's governance and decision-making processes.

Hewlett Packard (HP)

Bangalore, India

Software Developer Intern

Jan 2021 - Jun 2021

- Contributed to the development of efficient backend solutions for an internal **HP** website, leveraging **NestJS** to ensure optimal **performance** and functionality.
- Gained proficiency in utilizing **AWS** cloud services for data management, demonstrating adaptability and an eagerness to acquire new skills to meet project requirements.

PERSONAL PROJECTS

Sign On Chain

<https://sign-on-chain-nu.vercel.app/>

- Created "Sign on Chain," an on-chain **document acknowledgment** platform, enabling users to upload files and request signatures using wallet addresses.
- Implemented a secure system where signatures are stored on **IPFS** as **NFTs**, ensuring tamper-proof acknowledgments.
- Developed a user-friendly feature allowing users to send **e-signature** requests directly via **email**, making the process seamless and efficient.
- Ensured the security of the system by designing access controls, which restrict signature generation and signing to only the **intended** recipient's **wallet address**, enhancing privacy and confidentiality.

Crypto Canvas

<https://nft-marketplace-pink-one.vercel.app/>

- Conceptualized and developed Crypto Canvas, which is an **NFT marketplace** that empowers users to mint their own NFTs by setting prices and uploading images, securely stored on **IPFS**.
- Established a dynamic marketplace where users can seamlessly **list and purchase** NFTs, enhancing accessibility to the world of digital collectibles.
- Designed and implemented a user-friendly **profile** section, providing users with a comprehensive overview of their NFT holdings, including a calculated total value based on their wallet address.

CrowCoin

<https://crowd-coin-chi.vercel.app/>

- Pioneered "Crowd Coin," a dynamic **crowdfunding** platform that allows users to create campaigns, articulating their causes and objectives.
- Engineered a transparent system where any user can contribute ETH to **campaigns**, becoming donors/investors in support of the stated cause.
- Implemented a secure and accountable process, where campaign owners can **request fund withdrawals**, subject to approval by at least **50% of the donors**, ensuring trust and safeguarding against fraudulent campaigns.
- Demonstrated a commitment to transparency, accountability, and the prevention of fraudulent activities within the crowdfunding space, enhancing the credibility of the platform for both campaign creators and contributors.

CryptoVerse

<https://cryptoverse-sigma-drab.vercel.app/>

- Created "Cryptoverse," a comprehensive crypto information hub providing users with real-time data on **coin prices**, market capitalization, **trading volumes**, market ranks, and more.
- Designed and implemented a user-friendly "**Saved Coins**" page, enabling users to closely monitor and manage their selected coins, enhancing their crypto investment journey.

CryptoLegacy

<https://devfolio.co/projects/crypto-legacy-b7c1>

- Pioneered "Crypto Legacy," an innovative platform that empowers users to create legally binding wills for their **crypto assets**, ensuring the seamless **transfer** of digital wealth to multiple beneficiaries on the **blockchain**.
- Developed a user-friendly interface enabling individuals to select and approve specific assets along with their **desired** allocation to **beneficiaries**.
- Leveraged the **Chainlink automation** to schedule the execution of these crypto asset wills at predetermined future times, offering users a reliable and automated solution for asset distribution.
- Built as a team for ETHIndia'22 hackathon.

SKILLS

Solidity, Ethereum, Hardhat, Foundry, Graph Protocol, HTML, CSS, JavaScript, TypeScript, React, Tailwind

Skills: CSS, Next JS, Node JS, MongoDB, Nest JS, Postgres DB, SQL, EVM chains, Python, Data Structures, Algorithms, IPFS, AWS, OpenZeppelin

EDUCATION

SASTRA University

Bachelors of Technology (Information Technology)

TamilNadu, India

Graduation Date: Jun 2021

MISCELLANEOUS

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- Successfully competed and secured sponsor prizes totaling more than 500 USDC during the **ETHIndia'22 Hackathon**.
 - Participated and received sponsor prizes in the **Web3HackFest'23 Hackathon**.
 - Honorable member of **exclusive developer** community, **Developers DAO (D_D)**
 - Demonstrated strong problem-solving skills by conquering more than **400 Data Structures** and algorithmic challenges across platforms including LeetCode, GeeksForGeeks, and HackerRank.