

# Harsha Singamshetty

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## WORK EXPERIENCE

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Polka Labs | <https://polkasembly.io/>

Dubai

Blockchain Developer

Apr 2023 - Present

- Designed, architected, and developed Governance Contracts for Voting Module, which includes **Governance contracts**, **Voting Model**, and **Voting Strategy** contracts, from initial concept to implementation.
- Worked on the **Townhall Application**, which is a super app for **DAO governance**. With exclusive responsibility for **On-chain governance** implementation, ensuring its seamless integration and functionality within the platform. [<https://townhallgov.com>]
- Developed **BountyBird**, a social bounty platform enabling users to create bounties effortlessly by tagging our bot on **Lens Protocol**, **Farcaster**, and Twitter, fostering a seamless bounty posting experience across multiple platforms.
- Contributed to **TreasureEase** product, an EVM-based **multisig** wallet. Added a significant feature allowing users to utilize **tokens within** the multisig for **gas fee** payments instead of thier wallets by integrating **gelato**, streamlining transaction execution and improving user experience.
- Created and successfully launched an **Interchain** Token using **Axelar Interchain Token Service**, enhancing **cross-chain** interoperability and expanding token functionality.
- **Integrated** the token into the **Lens** and **Farcaster** ecosystems, enabling users to seamlessly **tip** using our token in their ecosystems.
- Leveraged **Farcaster's custom actions** feature to allow **tipping** viaemojis, providing a unique and engaging method for users to interact and transact within the platform.

Rapid Innovation

Goa, India

Blockchain Developer

Jun 2021 - Apr 2023

- 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.

Hewlett Packard (HP)

Bangalore, India

Software Developer Intern

Jan 2021 - June 2021

- Contributed to the development of efficient backend solutions for an internal **HP** website, leveraging **NestJS** to ensure optimal **performance** and functionality.
- Improved loading speed of the internal HP website by 1200ms through comprehensive code optimizations, enhancing user experience and efficiency.

## PERSONAL PROJECTS:

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### 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.

### CrowdCoin

<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.

### 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.

### TrustCrypt

[https://youtu.be/yeY\\_cdioTAs?si=Tamxom6ujP5IKtL7](https://youtu.be/yeY_cdioTAs?si=Tamxom6ujP5IKtL7)

- Developed **TrustCrypt**, a **decentralized password manager** application that leverages blockchain technology to ensure secure and private password management.
- Utilized **Filecoin's Lighthouse** for **encrypting** passwords, ensuring only the user's wallet **private key** can decrypt the data. Stored encrypted data on IPFS, with **IPFS** hashes recorded on the blockchain for enhanced security.
- Implemented The **Graph protocol** to index transactions, enabling users to **view and manage** their passwords through a user-friendly dashboard interface. Built for ETHIndia'23 hackathon

### 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.

## EDUCATION

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**SASTRA University**  
Bachelors of Technology (Information Technology)

**India**

*Graduation Date: June 2021*

## MISCELLANEOUS

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- Participated and won sponsor prizes in **ETHIndia'22** , **ETHIndia'23** Hackathons worth over \$1000USDC.
- Participated and received sponsor prizes in the **Web3HackFest'23 Hackathon**.
- Honorable member of **exclusive developer** community, **Developers DAO (D\_D)**
- Active twitter influencing through one **tech thread every week** and member of exclusive **Scribble DAO** community
- Demonstrated strong **problem-solving** skills by conquering more than **400 Data Structures** and algorithmic challenges across platforms including LeetCode, GeeksForGeeks, and HackerRank.