MADHAV GUPTA

Profile

Passionate and innovative Web3 developer with a solid foundation in full stack development. Proficient in smart contract development, decentralized protocols, and modern web technologies. An adaptable problem-solver who thrives in collaborative environments, dedicated to pushing the boundaries of possibility in the rapidly evolving landscape of decentralized applications.

Work Experience

Intern , American Crypto Academy   2023

- Played a pivotal role in the successful implementation of Certificates of Completion Of Course i.e "**Soul Bound Tokens**" integration as secure, intransferable tokens.
- As Frontend and DevOps Engineer, orchestrated **AWS deployment of blockchain-integrated backend**, aligning with CTO's mandate.
- **Integrate Magic Link** Functionalities for Easy Registration of users.

Solidity Dev (Founding Team) , FrontDoor   2023

- Developed and **maintained a complex smart contract system in Solidity**, enabling secure and automated processes for candidate recruitment and job placement.
- Implemented **blockchain-based referral tracking** to boost protocol integrity and user trust.
- **Integrated Ethereum libraries (OpenZeppelin, Chainlink)** for crucial features such as token transactions and price feeds.
- Established **on-chain immutable data structures**, ensuring **data integrity** and secure historical references for referrals.
- **Designed efficient data management** using mappings for candidates, companies, and jobs.

FullStack Developer, Sublabs   2023

- **Led full-stack development of "Tayaswap" DApp**, enabling asset swapping, liquidity, staking, and lockdrop features.
- Ensured robustness and security through rigorous **testing, debugging, and optimization**, guaranteeing smooth functionality of the decentralized application.
- Conceptualized and developed **"Poply" an NFT Marketplace**, utilizing blockchain technology to facilitate secure and transparent buying, selling, and trading of digital assets.

Projects

Inter-Planetary-Heritage-Storage Network   EthGlobal HackFs 2023

- Minted an NFT for each upload and utilized the NFT contract data to **create proposals for voting.**
- **Integrated IPFS and NFT.storage** to enable storage and retrieval of immutable cultural metadata.

- **Utilized Lighthouse Storage SDK** to store cultural asset files on Filecoin.Storage on Calibration Testnet.
- Implemented **Custom Apecoin Contract** for Calibration Testnet to **facilitate voting and incentivize cultural preservation** professionals

PARK3 : Public data storage and verification hyperstructure.   ETHOnline 2022

- **Win 2'nd Price for UMA Protocol**
- **Deployed UMA Oracle for precise validation** of factual statements about public locations.
- **Leveraged Livepeer Studio** for efficient video asset management and playback, enhancing the user experience.
- **Utilized IPFS for decentralized storage of video assets**, ensuring accessibility and immutability.

AI Generated NFT Marketplace   2023

- **Implemented Hugging Face API for AI Generative Images**
- Developed a **streamlined NFT marketplace contract encompassing Buy, Sell, List, and Relist** functions for enhanced trading capabilities.
- **Utilized IPFS for Storing metadata** of NFT using NFT.Storage.

Crypto Info App   2022

- **Utilizing the CoinGecko API to Retrieve Data** and Present it on the Frontend
- **Employing Chart.js to Visualize Coin Data** in Graphical Charts
- **Leveraging Chakra UI** for Elegant Application Styling

Skills

Languages /FrameWorks /Libraries : Javascript , Solidity , Typescript

Frameworks/Libraries : ReactJs, NextJs , Tailwind Css, ChakraUI , Express.js, Nodejs, Ethers.js , Hardhat , Uniswap.sdk , Chart.js, NFT.Storage

Tools : Github, Gitpod, Remix, Replit, Firebase, Git, Vercel, Netlify, EVM , Geth