

# Harsh Goyal

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<https://www.linkedin.com/in/harshgoyal13/> | <https://github.com/HarshGoyal13>

## Education

Bachelor In Arts (BA), Indira Gandhi National Open University

2021 – 2025

## Skills

- **Blockchain Development:** Solidity, Ethereum, Ethereum Virtual Machine, Yul, Solidity Optimization, Foundry, Token Development (ERC-20, ERC-721, ERC-1155), Smart Contract Auditing.
- **Programming Languages:** Rust, JavaScript, C++.
- **Full-Stack Development:** MERN Stack (MongoDB, Express.js, React.js, Node.js), HTML, CSS (Bootstrap, Tailwind), API Development, SEO Optimization.
- **Core Skills:** Data Structures and Algorithms, OOP, Git, GitHub.

## Projects

ChainVote | [Link](#) | [github](#)

- Developed a **decentralized, transparent voting system** on the **Ethereum blockchain** utilizing optimized **ERC-20 smart contracts**, ensuring **secure** and **efficient** user operations.
- Implemented **token-based voting** with **dynamic tokenomics**, where the value of tokens fluctuates based on real-time **user participation** and **crowd demand**, incentivizing engagement and enhancing **platform interaction**.
- Seamlessly integrated **storage** for **user data** on the blockchain and back-end, along with an automated **end-to-end mailing system**, enhancing **usability** and **communication** throughout the voting process.

CrowdSpark | [Link](#) | [github](#)

- Created a **decentralized crowdfunding platform** where users can fund real-world issues, ensuring full **transparency** and **security** through **blockchain technology** and back-end integration.
- Implemented a **transaction proof** on both the **blockchain** and **back-end servers**, allowing campaign owners to showcase **funding contributions** and demonstrate the direct **impact** of each supporter.
- Using **IPFS** for secure, decentralized **image storage**, ensuring **transparency** and maintaining **integrity** of campaign data while offering **real-time updates** and verifiable results.

NFT Marketplace | [Link](#) | [github](#)

- Developed a **NFT marketplace** on Ethereum using **ERC-721 token** standards and **OpenZeppelin** smart contracts, along with a **user-friendly front-end DApp** built with React.js for seamless interactions, enabling users to browse, buy, and sell unique digital assets.
- Integrated a secure and optimized **transaction system** ensuring **gas efficient NFT transactions**, with real-time updates and full **blockchain transparency**, enhancing the overall user experience.

DistriCloud | [Link](#) | [github](#)

- Created a decentralized cloud storage system where users can **upload and encrypt images and passwords** using **MetaMask** for secure data encryption, and integrated **IPFS** for file storage, ensuring secure, private data retrieval without reliance on centralized servers.
- Developed a **MetaMask decryption** mechanism, allowing users to locally decrypt data using their private key, giving them full control and ownership of their sensitive information.

## Certificates

Master Full-Stack Web development (MERN) | [Certificate](#)

April '23 – September '23

- Developed and deployed scalable web applications using modern JavaScript frameworks, including React, Node.js, and Express.js.
- Applied industry best practices in full stack development to create robust and efficient web applications, ensuring optimal performance and scalability.

Data Structures and Algorithms | [Certificate](#)

October '22 – March '23

- Gained proficiency in essential data structures and algorithms, enabling effective diagnosis and optimization of code.
- Applied advanced algorithmic strategies and data management techniques to design and implement optimized solutions for complex computational challenges.