

# DHANRAJ AVHAD

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• <https://github.com/Dhanraj30> • [Portfolio](#)

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## SUMMARY

Innovative Blockchain Developer with extensive experience in designing and deploying cutting-edge decentralized applications, including a DeFi platform on ethereum based ecosystem. Proficient in Solidity, TypeScript, Rust, Next.js, Hardhat and modern JavaScript libraries/frameworks. Seeking to further improve my skills as the future full stack developer and will continue to contribute my overall knowledge as a developer.

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## EXPERIENCE

### Smart Contract Auditor Freelance | CodeHawks Platform

Jul 2024 - Present

- Conducted security audits on Ethereum-based smart contracts for DeFi protocols, identifying vulnerabilities like re-entrancy, integer overflows, and access control issues.
  - Provided detailed reports, including proof of concepts (PoCs) and mitigation strategies
  - Collaborated with blockchain developers to fix vulnerabilities and optimize smart contract performance.
  - Audited various types of smart contracts, including staking, NFT, and DEX protocols.
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## PROJECTS

### Decentralized Exchange Dapp(Defi)

- Developed a decentralized exchange dapp on L2 Polygon Ethereum test network.
- Designed and implemented AMM smart contracts for the decentralized exchange .
- Integrated ether.js to interact with the Ethereum blockchain, ensuring real-time updates and transactions.
- Technologies: Solidity, JavaScript, TypeScript, Next.js, ether.js, Hardhat(deployment)

[\[Live\]](#) | [\[Github\]](#)

### Liquidity Pool Finder

- Developed a decentralized application for finding liquidity pools on Uniswap V3.
- Designed and developed a responsive front-end interface using Next.js and Tailwind CSS.
- Integrated with UniswapV3 and Ether.js for real-time data fetching and transaction handling.
- Technologies: UniswapV3 Pool Factory contract, ether.js, Next.js, JavaScript

[\[Live\]](#) | [\[Github\]](#)

### Staking Platform

- Developed a decentralized staking application allowing users to stake tokens and earn rewards, with real-time APY calculations and performance analytics.
- Integrated wallet connection via MetaMask and utilized ethers.js for interacting with the staking smart contracts.
- Technologies: Solidity, ether.js, Next.js, Hardhat, JavaScript libraries/frameworks

[\[Live\]](#) | [\[Github\]](#)

### Blockchain cli (Rust)

- Designed and implemented proof-of-work consensus mechanism .
- Demonstrating basic functionalities like creating blocks, mining, and rewarding miners

[\[Github\]](#)

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## SKILLS & COMPETENCIES

- **Technical Skills:** Smart Contract Development & Deployment, Structural Analysis, Decentralized Finance(Defi), Cryptography, Smart Contract Auditing.
  - **Programming Languages:** Solidity, Rust, JavaScript, TypeScript, C, Python, HTML, CSS, SQL.
  - **Tools/Frameworks:** Hardhat, Foundry, Ether.js, Next.js, React, node.js, mongodb.
  - **Version controls:** Git/GitHub
  - **Others:** Zero-Knowledge proofs, Layer 2 solution, EVM, Problem Solving
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## EDUCATION

B.Tech, Mathematics and Computing (CGPA - 7.7/10)

2021 - May 2025

Rajiv Gandhi Institute of Petroleum Technology

**(An Institute of National Importance, Government of India)**

- Mathematics: Discrete maths, Linear Algebra, Statistical Methods, Financial Engineering.
- Computational: Data Structure & Algorithms, Deep Learning, AI, Computer Networks.

**Achievements:** Attained a position among the **top 8%** of candidates, outperforming **0.25 million** students in the most competitive **JEE Advanced** examination in India.