Trisha Rami

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EDUCATION

UIT, Karnavati University — Ahmedabad, India
Bachelor of Science(Hons.) - Computer Science(AIML); GPA: 8.44 — *Aug 2022 - May 2026*

Courses: *Operating Systems, Data Structures, Analysis Of Algorithms, Artificial Intelligence, Machine Learning, Networking, Databases, Cryptography, Blockchain Security, Smart Contract Development and Auditing, Augmented Reality*

EXPERIENCE

Blockchain Research Intern — On-Site
Dhirubhai Ambani Institute of Information and Communication Technology (DA-IICT) — *May 2025 - Aug 2025*

- **Research Focus**: Worked on game-theoretic modeling of miner behavior in fee-based queueing blockchains, analyzing incentive mechanisms and transaction validation strategies.
- **Technical Contribution**: Applied mathematical modeling and simulation to evaluate miner strategies under varying fee structures, contributing to blockchain scalability and security research
- **Outcome**: Prepared findings for potential publication, providing insights into optimizing transactions with higher fees, inclusion and fairness in decentralized networks.

Blockchain Developer Intern — On-Site
AuctionX — GlobalVox — *Dec 2025 - April 2026*

- **Blockchain Security and Protocol Testing**: Worked on smart contract security auditing and protocol QA testing, analyzing transaction logic and contract behavior to ensure secure and reliable execution within the AuctionX blockchain ecosystem.
- **Technical Contribution**: Collaborated with the product and engineering teams to test protocol workflows, evaluate smart contract interactions, and identify potential vulnerabilities in decentralized transaction processes.
- **Outcome**: Contributed to strengthening the reliability and stability of the platform by supporting improvements in smart contract validation and blockchain ecosystem robustness.

SKILLS SUMMARY

- **Languages**: Python, JavaScript, Rust, MySQL, HTML/CSS, R, MATLAB, Solidity, React
- **Frameworks**: Scikit, NLTK, Keras, TensorFlow, Keras, NodeJS, Web.js, Ethers.js, React.js, Typescript, OpenZeppelin
- **Tools**: Hardhat, IPFS Storage, Remix IDE, MetaMask, GIT, MongoDB, MySQL, Chainlink, Foundry
- **Platforms**: Remix IDE, Web, Windows, Arduino, AWS, Ethereum, IPFS, Pinata
- **Soft Skills**: Leadership, Event Management, Writing, Public Speaking, Time Management

PROJECTS

- **Carbon Offset Tracker (Ethereum, Sepolia, Web3.js, Solidity, React):**: Built a carbon tracking system on Ethereum Sepolia using gas-optimized smart contracts and a React.js frontend with Web3.js for real-time blockchain interaction. (Mar '25)
- **Token Faucet (Solidity, Polygon Sepolia):**: Built and deployed a Solidity smart contract for controlled token distribution using require() to prevent duplicate claims, with experience in deployment, testing, and frontend integration. (Mar '25)
- **NFT Minting with IPFS Metadata Storage (Blockchain, Smart Contracts):**: Developed an NFT minting dApp using Solidity and OpenZeppelin with IPFS-based metadata storage for secure and transparent ownership. Tech: Solidity, IPFS, OpenZeppelin, JavaScript (Apr '25)

PUBLICATIONS

- **Book: Blockchain Technology in the Energy Sector:** : Co-authored a research chapter on blockchain's role in energy trading and smart grids for an upcoming IGI Global publication. (Yet to be published)
- **Book: Blockchain and NFT Research Project :**: Conducted research on NFT applications in DeFi, digital ownership, and IP protection for an upcoming IGI Global publication. Analyzed smart contract security, ERC-721 and ERC-1155 token standards, and cross-chain interoperability for NFT integration. (Aug '25)

HONORS AND AWARDS

- Runner's Up at Inter College Pitchathon (Team Lead) - March, 2025
- Participant at The Gated NFTS University Regional Hackathon - May, 2025

VOLUNTEER EXPERIENCE

Community Executive at Turning Point Institute of Student Community — Ahmedabad, India
Conducted offline technical & soft-skills public speaking training, impacting over 1500 students — *Apr 2024 - Jan 2025*

Social Ambassador at Pledge A Smile Foundation(NGO) — Ahmedabad, India
Led tech awareness workshops and crowdfunding campaigns, engaging 52,000+ followers — *Jun 2024- Dec 2024*