

ARPAN BARIK

Computer Science Undergraduate - Blockchain & Web3 Developer
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Blockchain-focused Computer Science undergraduate who builds full-stack **Web3** systems - smart contracts, zero-knowledge proofs, and AI-integrated applications. Fluent in modern AI-assisted/ vibe-coding workflows (Claude code, Codex, Antigravity, Copilot pro, Cursor, Google AI studio) to design, build, and ship production-grade software fast. Proven track record across national hackathons and academic and personal capstone projects, with a problem-first mindset and strong fundamentals in cryptocurrencies, decentralized systems and web3.

EDUCATION

Bennett University, Greater Noida
B.Tech, Computer Science Engineering - Specialization in Blockchain
3rd Year (Undergraduate) | Expected Graduation: 2028

- Relevant Coursework:** Blockchain Engineering, Data Structures & Algorithms, Object-Oriented Programming (OOP), Database Management Systems (DBMS)

TECHNICAL SKILLS

- Languages:** Proficient: Python, C++, Solidity • Intermediate: Java, JavaScript, Typescript, Go
- Blockchain & Web3:** Foundry, Hardhat, web3.js, ethers.js, OpenZeppelin, Hyperledger Fabric
- Frameworks & Tools:** React, Node.js, Tailwind CSS, Git, Docker
- Platforms/AI-Assisted Development:** Cursor, Claude code, Opencode, Codex, Antigravity, GitHub Copilot Pro (VS Code)

PROJECTS (Most recent first)

measuringTape *Typescript • Solidity • Ethereum (Sepolia) • IPFS*

GitHub: <https://github.com/arpan2006hub/measuringTape>

- Built a full-stack **decentralized** platform to report **civic issues** (report potholes, broken streetlights, garbage dumps, and others)—with every report stored on IPFS. Issues verified by local community via real time consensus on-chain, received by authorities/municipality. All actions taken are updated on-chain then re-verified via consensus by community.
- Solidity smart contract deployed on Sepolia for immutable, tamper-proof report, consensus results & reputations. Facilitating verification & user accountability.

Dermalyze *TensorFlow • Solidity • Ethereum (Sepolia) • IPFS*

GitHub: <https://github.com/Apratim14112/derma-ai/tree/feature/derma-updates>

- Co-built a full-stack AI-powered **skin-disease detection** platform that pairs deep-learning diagnostics with **blockchain-verified** medical reports.
- Designed and deployed Solidity smart contracts on Ethereum Sepolia for immutable, tamper-proof verification of medical reports.
- Engineered IPFS-based decentralized storage integration for secure, persistent report data.

zkAttend *Solidity • Typescript • Tailwind CSS • Ethereum (Sepolia)*

GitHub: <https://github.com/arpan2006hub/zkAttend>

- Built a full-stack, **proxy-proof attendance** verification system using **zero-knowledge proofs** on Ethereum Sepolia.
- Designed and implemented an NFT- based reward mechanism to incentivize verified attendance, end to end.

HACKATHON EXPERIENCE & EXTRACURRICULARS (Most recent first)

- [Google x CodingNinjas: Vibe2Ship Hackathon (2026)] - **measuringTape**: [Details included under projects]
- [Smart India Hackathon (2025)] - **Medi-Link**: Cloudflare Workers • Hono • Prisma • PostgreSQL • DeepSeek LLM • FHIR R4
 - Built an interoperability bridge connecting India's NAMASTE traditional-medicine coding system with global ICD-11 standards.
 - Developed a bulk CSV ingestion pipeline that generates instant FHIR CodeSystems & ConceptMaps from NAMASTE datasets.