

MANVI MAHESHWARI

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Software Engineer | Full-Stack Developer | IT Undergraduate

PROFESSIONAL SUMMARY

Information Technology undergraduate skilled in full-stack development, system design, and data structures & algorithms. Built scalable applications using React.js, Node.js, and MongoDB with hands-on experience in ML and blockchain integrations. Recognized at national hackathons for developing secure, real-world data systems. Actively seeking software engineering internship roles.

EDUCATION

Maharaja Agrasen Institute of Technology, Delhi
B.Tech in Information Technology
• **Coursework:** DSA, DBMS, OOP, OS, CN

CGPA: 9.054 / 10.0
Expected Graduation: 2028

TECHNICAL SKILLS

Languages: C, C++, Python, Java, JavaScript, SQL, HTML, CSS
Frameworks: React.js, Node.js, Express.js, FastAPI
Databases: PostgreSQL, MySQL, MongoDB, Firebase
Tools: Git, GitHub, VS Code, Postman
Core: DSA, OOP, System Design, Backend Development

PROJECTS

Caste Census System | *Python, ML, Blockchain, Node.js* | *NSUT Hack Delhi*

- Selected among **Top 30 teams nationally**; built a scalable and secure digital census platform for structured demographic data collection.
- Developed ML-based Aadhaar image verification to validate identities and significantly reduce duplicate or fraudulent entries.
- Implemented SHA-256 blockchain hashing to generate tamper-proof unique IDs ensuring data immutability and integrity.
- Designed role-based citizen/admin portals with structured state-wise, caste, and sub-caste data categorization.
- Delivered real-time analytics dashboards enabling actionable insights for data-driven governance and policy planning.

Real-Time Public Transport Tracking System | *Node.js, MongoDB*

- Built GPS-based PWA supporting **10K+ users** with sub-2s real-time updates and optimized bandwidth usage.
- Developed admin dashboard for live fleet tracking and route analytics via REST APIs.
- Achieved **95% offline functionality** using service workers for low-connectivity environments.

Threads of Truth — Supply Chain Traceability | *React.js, Node.js, Blockchain*

- Semi-Finalist (Top 25/200+)** at IIT Delhi Hackathon for developing a blockchain-based product traceability solution.
- Reduced frontend overhead by **60%** through optimized state management and efficient API handling.
- Implemented digital signature verification to authenticate product origin and prevent counterfeiting.

mediQR — Pharma Authentication | *Node.js, MongoDB*

- Developed hash-based verification system for **1000+ pharmaceutical products** ensuring authenticity.
- Achieved **sub-200ms API response time** under concurrent usage through optimized backend design.

ONDC × BECon'25 Hackathon | *System Design* | *IIT Delhi*

- Designed scalable digital commerce architecture focusing on distributed systems and high availability.
- Collaborated in a team to present technical solutions addressing real-world scalability challenges.

ACHIEVEMENTS

Competitive Programming & Academics

- Top 30** — NSUT Hack Delhi Hackathon for designing a secure ML-integrated and blockchain-backed census platform solving real-world data authenticity challenges.
- Semi-Finalist** — IIT Delhi Hackathon (Top 25/200+ teams) for building a scalable blockchain-based supply chain traceability system.
- Maintained **CGPA of 9.054** demonstrating consistent academic excellence across core computer science subjects.
- Solved **300+ DSA problems** on LeetCode, strengthening problem-solving skills across arrays, trees, dynamic programming, and graphs.