NIKHIL KUMAR DAS

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Education

National Institute of Technology Patna   **Expected: June 2027**
Bachelor of Technology (B.Tech) in Computer Science and Engineering   *Patna, Bihar*
CGPA: 9.04 / 10

Achievements

ICPC 2025: AIR 139 (ICPC Regionalist), Institute Rank 50, NIT Patna
IICPC 2025: AIR 1925 (Certificate)
Codeforces: Expert (1770) — Profile, Top 161 in Round 1030
CodeChef: 5-Star (2010) — Profile, Global Rank 32 in Starters 170
LeetCode: Knight (1921) — Profile
Problem Solving: Solved over 1400+ DSA problems across platforms.

Projects

EcoFood – Food Donation Platform | *Angular, Spring Boot, Java, MongoDB, JWT* | GitHub
- Built a scalable full-stack platform connecting food donors with NGOs using geolocation-based matching and real-time availability tracking.
- Designed and implemented RESTful HTTP APIs using **Spring Boot (MVC)**, handling authentication, authorization, and data validation.
- Implemented secure **stateless authentication** using **Spring Security**, **JWT**, and **BCrypt** with role-based access control.
- Developed a responsive **Angular SPA** with lazy loading, route guards, and HTTP interceptors; integrated Google Maps API for location-based workflows.
- Collaborated using GitHub pull requests, incorporating peer feedback to improve code quality and reduce defects.

LandSol – Decentralized Land Registry | *Solidity, Web3.js, IPFS, Hardhat, ERC-721, MERN* | Project Link
- Built a decentralized land registry where land parcels are minted as **ERC-721 NFTs**, ensuring immutable ownership and traceability.
- Learned and applied **Solidity smart contracts** to automate land transfer workflows, handling validation and failure scenarios.
- Integrated **Stripe payment gateway** with MetaMask and Web3.js to enable secure, verifiable transaction flows.
- Stored and retrieved land documents using **IPFS (Pinata)**, separating on-chain and off-chain responsibilities for scalability.

Student Progress Tracker – Codeforces Analytics | *MongoDB, Express.js, React.js, Node.js, Tailwind CSS* | Project Link
- Developed a full-stack analytics dashboard to visualize Codeforces ratings, submission history, and performance trends.
- Integrated external REST APIs (Codeforces API) and processed data using scheduled **cron jobs** for daily synchronization.
- Implemented inactivity detection and automated email alerts; built a responsive UI with theme toggle support.

Medicare – Decentralized Prescription Storage | *Solidity, Ethereum, React.js, Web3.js, Tailwind CSS* | GitHub
- Built a decentralized medical record system using **Solidity smart contracts** and IPFS for secure prescription storage.
- Implemented **role-based access control** to enable encrypted prescription sharing between doctors and patients.
- Focused on data integrity and verification using on-chain checks while keeping sensitive data off-chain.

Technical Skills

Languages: JavaScript, TypeScript, Java, Python, C++
Frameworks & Tools: Spring Boot, Angular, React.js, Node.js, Express.js, MongoDB, Git, Postman, Hardhat
APIs & Security: REST APIs, JWT, Spring Security, Role-Based Access Control
Blockchain: Solidity, IPFS, Polygon, Web3.js