

HIMANSHU RAJ

Ghaziabad, Uttar Pradesh

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EDUCATION

Shiv Nadar University, Greater Noida

B.Tech - Computer Science and Engineering

2023 – 2027

Greater Noida, Uttar Pradesh

Hellens School, Sitamarhi

Senior Secondary Education (CBSE)

2021 – 2023

Sitamarhi, Bihar

EXPERIENCE

Undergraduate Teaching Assistant at Shiv Nadar University

Course - Operating Systems

January 2026 – Present

Greater Noida, Uttar Pradesh

- Assisted students with C programming and Linux-based systems to understand process scheduling, memory allocation, and file system concepts through weekly lab sessions.
- Reviewed and graded programming assignments while delivering constructive feedback to enhance learning outcomes.
- Conducted doubt-clearing sessions to assist students with coursework challenges and assignment implementation.

Intern at Vedanga Solutions Pvt. Ltd. (Invincible YOU) 

July 2025 – August 2025

Role - Web Development Intern

Remote

- Refactored existing codebase to improve readability, maintainability, and performance.
- Assisted in planning and implementing new features and functionalities for web applications.
- Identified and diagnosed bugs and technical issues across different parts of the application.
- Tested developed features and bug fixes to ensure quality and functionality.

PROJECTS

TrustLedger – Blockchain-Based Secure E-Voting System | Solidity, Ethereum, Web3.js, Truffle

2025

- Engineered a decentralized voting platform using Ethereum smart contracts to eliminate centralized control and ensure tamper-proof vote recording.
- Implemented MetaMask-based voter authentication and developed a Web3-enabled DApp interface for seamless blockchain interaction.
- Designed smart contract functions for candidate registration, voter validation, and automated result tallying with real-time transparency.
- Validated system security through comprehensive testing, enforcing one-voter-one-vote rules and preventing unauthorized access attempts.

OShell – A High-Performance Unix Shell in C | C, Unix, Systems Programming

2025

- Built a custom Unix shell supporting command execution, piping, redirection, background processing, and math computation.
- Introduced batch execution mode that reduces process creation overhead by up to 92%.
- Implemented logarithmic-time exponentiation using bitwise operations for faster math operations.
- Benchmarked against Bash 5.1 and PowerShell 7.3, achieving 3.15x faster math performance than Bash and 56x faster than PowerShell.
- Achieved 36% lower pipe latency than Bash.

SKILLS

Languages: Java, C, Python, SQL, HTML, CSS, JavaScript, Solidity

Technologies/Frameworks: Ethereum, Node.js, Web3.js

Developer Tools: VSCode, MySQL, GitHub, Jupyter Notebook, Truffle, Ganache, MetaMask, MS Excel, MS Word

Core CS Concepts: DSA, Object-Oriented Programming, Operating Systems, DBMS, Computer Networks

Soft Skills: Creativity and Innovation, Critical Thinking and Problem Solving, Teamwork and Collaboration

CERTIFICATIONS

- Foundations of Cybersecurity – Google
- Play it Safe: Manage Security Risks – Google
- Connect and Protect: Networks and Network Security – Google
- Assets, Threats, and Vulnerabilities – Google