

Naman Aggarwal

☎ +91 8368609506 | ✉ namanaggarwal76@gmail.com | 🔗 LinkedIn | 🌐 GitHub | 📁 Portfolio | 📍 New Delhi, India

EDUCATION

International Institute of Information Technology

B.Tech. in Computer Science; CGPA: 9.6/10.00

Hyderabad, India

Aug 2024 – May 2028

Academic Awards: Dean's List for academic excellence (all semesters)

Relevant Coursework: DSA, Operating Systems & Networks, Data & Applications, Probability & Statistics, Computer Systems, Linear Algebra, Embedded Systems

Sachdeva Public School

CBSE Board - Class 12th: 94.4%, Class 10th: 96.4%

New Delhi, India

2010 – 2024

EXPERIENCE

Felicity, IIIT Hyderabad

Tech Team Member

Hyderabad, India

Aug 2024 – Present

- Ideated, designed, and developed the official website for Infinium, IIIT Hyderabad's annual tech fest, serving 2000+ users and supporting multiple events.

PROJECTS

RoadSense | [GitHub](#) | Python, Flutter, React, IoT, AI/ML

- Created an intelligent two-wheeler safety and fleet management system using IoT sensors and AI algorithms to monitor rider behavior, detect accidents in real time (1s prediction latency), and provide predictive maintenance alerts, enhancing road safety and operational efficiency.

Docsh | [GitHub](#) | C, Distributed Systems, Socket Programming

- Engineered a Google Docs like distributed multi-user document editing system with sentence-level locking and replication, implementing concurrent access control mechanisms and fault-tolerant architecture to ensure data consistency across distributed nodes.

C-Shell | [GitHub](#) | C, Unix Systems Programming

- Built a custom Unix shell from scratch supporting advanced features including I/O redirection, pipes, signal handling, background/foreground process management, and job control, demonstrating deep understanding of system calls and process management.

Bhashani Sarthi | [GitHub](#) | Python, React, Gemini API, Bhashini API

- Developed an AI-powered multilingual travel companion enabling users to plan, explore, and navigate travel experiences across multiple languages, integrating Gemini API for intelligent recommendations and Bhashini API for real-time speech translation with sub-1s latency.

ACHIEVEMENTS & HONORS

Codeforces (Peak Rating 1534): Demonstrated strong proficiency in **data structures, algorithms, problem-solving, and competitive programming** through consistent performance. ([Codeforces Handle](#))

CTF – KiN3t1cs (Top 20 in India): Applied skills in **cryptography, reverse engineering, binary exploitation, web security, and scripting** during Capture The Flag contests. ([CTFtime Team Profile](#))

JEE Main & Advanced 2024: Secured **AIR 1254 (Top 0.1%)** in JEE Main and **AIR 1871** in JEE Advanced, ranking among the top national candidates.

Hackathon Achievements: Winner and top finalist in **multiple hackathons**, excelling in fast-paced technical execution.

SKILLS

Languages: C, C++, Python, JavaScript, SQL, Bash, x86-64 Assembly.

Core CS: Data Structures and Algorithms, Operating Systems, Computer Networks, Distributed Systems.

ML: PyTorch, NumPy, Pandas, HuggingFace.

IoT: Sensor Data Processing, Communication Protocols, Real-time Data Visualization.

Web & Backend: React, Vite, Node.js, REST APIs, MongoDB, Firebase, Supabase.

Cyber Security: Cryptography, Reverse Engineering, Network Traffic Analysis.

Tools: Git, Docker, Linux, Postman.