



SANCHAY SINGH

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DOB: May 28, 2005

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[GitHub](#) [LinkedIn](#) [Portfolio](#)



Education

Indraprastha Institute Of Information Technology, Delhi

B.Tech CSAM
2023 – Present

CGPA: 8.2
(till 4th Semester)

Delhi Public School Vasant Kunj, New Delhi

CBSE
2021 – 2023

Percentage: 95.2%

Podar International School Thane, Maharashtra

CBSE
2016 – 2021

Percentage: 87%

Skills

Expertise Area	Algorithms & Data Structures, Competitive Programming, Full Stack Development, Object-Oriented Design, System Architecture, Machine Learning, Neural Networks
Programming Language	C, C++, Java, Python, Javascript
Tools and Technologies	Git, GitHub, PyTorch, NumPy, PyTorch3D, Scikit-learn, Node.js, Express, MongoDB, Linux, Bash, LaTeX, LibGDX, HTML, CSS, Figma, Canva
Technical Electives	Data Structures and Algorithms, Operating Systems, Theory of Computation, Algorithm Design and Analysis, Fundamentals of Database Management Systems, Object Oriented Programming with Java, Computer Organization
Math Electives	Linear Algebra, Probability And Statistics, Real Analysis, Discrete Structures, Abstract Algebra, Differential Equations

Experience

Animation of a static NeRF/Gaussian Splatting 3D scene from a 2D motion video (Research) (May, '25 – Present)
Team Size-6

Guide: Dr. Ojaswa Sharma

Researching motion transfer from monocular videos to animate static 3D scenes, leveraging neural rendering methods such as NeRF and Gaussian Splatting, along with 3D vision techniques.

Data Race Detection and Witness Generation (Research)

Guide: Dr. Owolabi Legunsen, Cornell University (Remote)

(Jun, '25 – Present)

Team Size-5

Evaluating data race reports generated by a static analysis tool on open-source Java projects. Classifying races as true bugs, benign, or false positives, and submitting pull requests to affected repositories.

Projects

Angry Birds Clone - [Github](#)

(Oct, '24 – Nov, '24)

Guide: Dr. Arun Balaji Buduru

Team Size-2

- **Tech Stack:** Java, LibGDX
- Built a 2D Angry Birds clone in Java using libGDX, implemented game physics and mechanics using HashMaps, ArrayLists, and OOP concepts like inheritance and polymorphism.

Stock Market LLM Advisory API - [Github](#)

(Mar, '25)

Guide: Self

Team Size-1

- **Tech Stack:** Python, LangChain, HuggingFace, FastAPI
- Created an API to fetch NASDAQ data and query a language model for investment advice. Involving REST APIs, prompt design, and backend logic.

Twitter Clone - [Link](#)

(Mar, '25 – Apr, '25)

Guide: Self

Team Size-4

- **Tech Stack:** HTML, CSS, Bootstrap, Javascript, Node.js, Express.js, EJS, Postgres
- Implemented a mini social media platform with features like user authentication, posting, liking, following, and direct messaging. Used Supabase for database hosting and user management.

Smart ELF Loader - [Github](#)

(Oct, '24)

Guide: Dr. Vivek Kumar

Team Size-2

- **Tech Stack:** C
- Developed a C-based ELF loader that handles page faults via a custom SIGSEGV signal handler and performs on-demand paging using mmap.

Positions of Responsibility

- Member, Placement Committee, IIIT-Delhi (May, '25 – Present)
- Member, Undergraduate Research Club, IIIT-Delhi (Oct, '24 – Present)

Awards and Achievements

- Achieved a peak rating of **1425** on Codeforces, ranking in the top **5%** nationally ([Profile](#))
- Achieved a peak rating of **1682** on Codechef ([Profile](#))
- Placed **145th** nationally and **1,133rd** globally in Meta Hacker Cup 2024 Round 2 ([Certificate](#))
- Team placed **187** In ICPC 2024 India Prelims

Interests and Hobbies

- Reading
- Chess

Declaration: The above information is correct to the best of my knowledge.

Sanchay Singh

Date: June 25, 2025