# Rachit Singh

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Codeforces: RachitNeverCodes | LeetCode: RachitNeverCodes

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## Summary

Computer Science undergraduate at IIIT Surat with strong foundations in **C and C++**, hands-on experience in graphics programming, and growing expertise in data structures and algorithms. Known for combining analytical thinking with creativity to design efficient and elegant solutions. Seeking a **Software Development Engineer Intern** role.

## Education

**Indian Institute of Information Technology, Surat**                    *2024 – 2028*
B.Tech in Computer Science and Engineering (Sem 4)
CGPA: **7.9 / 10** | JEE Main Percentile: **97.9%**

## Technical Skills

**Programming Languages:** C , C++ , Python
**Data Structures & Algorithms:**
**Computer Science Fundamentals:** Operating Systems, DBMS, SQL
**Tools & Libraries:** Git, Linux, SDL2

## Projects

**2D Ray Tracing Engine**                    *C, SDL2*
github.com/Rachit1801/ray_tracing

- Designed and implemented a 2D ray tracing engine from scratch to simulate light-ray propagation and object intersections.
- Gained strong understanding of computational geometry, memory management, and low-level graphics programming in C.

**Disk Speed Benchmarking Tool**                    *C*
github.com/Rachit1801/diskspeed

- Built a CLI tool to benchmark disk read and write speeds using low-level file I/O.
- Gained hands-on experience with file systems, disk performance metrics, and OS-level I/O.

## Competitive Programming

- **Codeforces:** Rating 1037, 65 problems solved (5 contests, as of 18 Jan 2026)
- **LeetCode:** Rating 1604, 173 problems solved (5 contests participated)

## Achievements

- **4th Position** — Meshmerize (Line Follower Competition), conducted by **Techfest, IIT Bombay**, held at NIT Jaipur

## Positions & Activities

- Problem Setter, **LCS (Learn Code Solve)** — Coding Club, IIIT Surat
- Member, Photography Club

## Creative & Extra-Curricular

- Strong creative thinker with an interest in innovative problem-solving
- Skilled video editor with experience in photography and visual composition
- Plays guitar and flute, demonstrating discipline, creativity, and consistency