

# Rudraansh Patel

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## TECHNICAL SKILLS

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**Programming Languages:** C++, Python, SQL

**Data Structures & Algorithms:** Arrays, Strings, Hashing, Linked Lists, Stacks, Queues, Trees, Graphs, Heaps, Tries, Dynamic Programming, Recursion, Backtracking, Greedy, Sliding Window, Two Pointers, Binary Search

**Computer Science Fundamentals:** Object-Oriented Programming, Operating Systems, Database Management Systems, Computer Networks, System Design (Basics)

**Databases:** MySQL, SQLite, Relational Database Design, SQL Query Optimization

**Tools & Platforms:** Git, GitHub, Linux, VS Code, HackerRank, LeetCode, Codeforces

**Methodologies:** Agile, Version Control, Test-Driven Development (Basics), Code Review

## PROJECTS

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**ChemElement Finder** | *Python, Tkinter, Object-Oriented Programming* 2020

- Designed and built a GUI-based desktop application to search and display properties of all 118 chemical elements, applying object-oriented design principles for data modeling.
- Implemented efficient lookup and filtering functionality across element attributes including atomic number, symbol, and atomic mass using dictionary-based data structures for constant-time access.

**Bulls and Cows** | *C++, Game Logic, State Management* 2023

- Engineered a terminal-based number-guessing game from scratch in C++, designing the core game loop, input validation layer, and scoring algorithm independently.
- Implemented state management and feedback logic using standard C++ constructs, demonstrating proficiency in control flow, I/O handling, and modular code design.

## EDUCATION

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**Maulana Azad National Institute of Technology (MANIT)** Bhopal, MP

*B.Tech in Civil Engineering*

*Aug 2023 – May 2027*

- Relevant Coursework: Data Structures & Algorithms, Programming & Computational Thinking, Engineering Mathematics, Probability & Statistics

**Indian Institute of Technology Madras (IIT Madras)** Online

*BS in Data Science and Applications – Foundation Level Completed*

*2024*

- Coursework: Mathematics for Data Science, Statistics for Data Science, Python Programming, Computational Thinking, Database Management Systems

## LEADERSHIP & ACHIEVEMENTS

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- **Goldman Sachs India Hackathon (GSIH) 2026:** Ranked **1602 / 15,953 (top 10%)** in a 12-hour individual coding contest on HackerRank. Achieved perfect scores (100/100) on two algorithmic problems and 59/100 on an advanced problem.
- **Lead Organizer, SIH Internal Hackathon @ MANIT (2024 & 2025):** Sole lead for the institute-level Smart India Hackathon internal round across two consecutive years, owning end-to-end execution including planning, mentor coordination, evaluation criteria, scheduling, and logistics across cross-functional teams.
- Scaled event participation from **87 to 172 teams (98% year-over-year growth)** and improved Grand Finale qualifications from **2 to 7 teams (250% improvement)** through structured mentorship rounds and improved problem-statement curation.
- Solved **125+ Data Structures & Algorithms problems** on LeetCode; actively participating in weekly LeetCode and Codeforces contests to sharpen algorithmic problem-solving under time constraints.