



# Harsh Kumar

B.Tech – Electrical Engineering – IIT (ISM), Dhanbad

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#21JE0380

## PROJECT

### Sorting Visualiser

May 2023

- Created a sorting visualizer project using **React** and leveraging the power of **JavaScript** for dynamic functionality.
- Implemented popular sorting algorithms** such as bubble sort, insertion sort, and merge sort, allowing users to visualize the sorting process in real-time.
- Enhanced the user experience by incorporating **smooth animations and transitions**.
- Utilized event handling and state management in React to enable user interactions and update the visualization dynamically.

### Personal Portfolio

Dec 2022

- Developed a personal portfolio website using **HTML, CSS, and JavaScript**.
- Designed a visually appealing and responsive interface, ensuring **optimal viewing across devices and screen sizes**.
- Incorporated interactive elements and animations with JavaScript, enhancing user engagement and creating a memorable browsing experience.

### Flappy Bird Game

July 2022

- Developed a replica of the popular game **Flappy Bird** using **pygame** library.
- Implemented key game mechanics such as **user input, collision detection and scoring system**.
- Utilized **Object-oriented programming** principles to create modular and maintainable code, allowing for easy expansion and customization of game features.

## SKILLS

- Strong** : C++, Python, DSA, OOPS, MERN Dev
- Intermediate** : Blockchain Dev.

## EDUCATION

### Indian Institute of Technology (ISM), Dhanbad — Bachelor of Technology in Electrical Engineering

DEC 2021 - MAY 2025 **CGPA – 7.33**

### School

**12th (BSEB)** - APRIL 2020 - APRIL 2021 **81.2%**

**10th(CBSE)** - APRIL 2018 - APRIL 2019 - **94.4%**

## SPORTS PROGRAMMING

- Pupil (1213) on Codeforce. [harsh\\_fr](#)
- Rated **1655** on Leetcode. [harsh\\_fr](#)
- 3-Star (1688)** on Codechef. [harsh\\_fr](#)
- 6-Star** problem solver on Hackerrank.

## ACHIEVEMENTS

- Global rank 270** - Codechef round 953.
- Rank 302** - Codeforce Round 876.

## POSITIONS OF RESPONSIBILITY

- Head** - Content, Design and Promo at Manthan.
- Leader** - The Mute Bandits, The Black Box, organized by the department of Electrical Engineering.
- Organising Team** - Srijan.

## EXTRACURRICULARS

- Guitarist** - Manthan, the official music club, IIT ISM.
- Rank-6th** - Inter IIT cultural 5.0 fest held at IIT Madras.
- Winner** - Harmony, band competition Srijan '23.
- Winner** - Inter School football competition.