



Harsh Kumar

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

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#21JE0380

PROJECT

Sorting Visualiser

May 2023

- Created a sorting visualizer allowing users to visualize the sorting process in real-time.
- Implemented popular sorting algorithms such as merge sort, bubble sort, insertion sort etc.
- Utilized event handling and state management in React to enable user to change the size of arrays and speed of animation.
- Tech Stack: React js, Node js [Sorting-Visualizer](#)

Flappy Bird Game

Dec 2022

- Developed a replica of the popular single player game Flappy-Bird.
- 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.
- Tech Stack: Python (pygame library) [Flappy-Bird](#)

Personal Portfolio

July 2022

- Developed a personal [portfolio website](#).
- Designed a visually appealing and responsive interface, ensuring optimal viewing across devices and screen sizes.
- Incorporated interactive elements like slides with JavaScript, enhancing user engagement and creating a memorable browsing experience.
- Tech Stack: HTML, CSS, JS [Personal-Portfolio](#)

SKILLS

- Programming Languages:** C/C++, Javascript, Java, Python.
- Frontend Development :** HTML, CSS, Bootstrap, React.
- Backend Development :** Node, Javascript, Python.

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

- Rated 1720 on Leetcode. [harsh_fr](#)
- 3-Star (1690) on Codechef. [harsh_fr](#)
- Pupil (1213) on Codeforce. [harsh_fr](#)
- 6-Star problem solver on Hackerrank.

ACHIEVEMENTS

- 177th Position – Codechef Starters 92.
- Global Rank 3103 – Codeforce Round 879.
- Rank 1520 – Biweekly Contest 106.
- Global 2283 – Codeforce Round 875..

POSITIONS OF RESPONSIBILITY

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

EXTRACURRICULARS

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