



SHIVAM GUPTA

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Education

Indian Institute of Information Technology Bhopal, India

Bachelor of Technology in Computer Science and Engineering

December 2022 - June 2026

CGPA: 8.14 (upto 3rd Sem)

Projects

Sorting Visualizier | *HTML, CSS and Javascript*

[Github](#)

- Objective: To create an educational tool aimed at captivating students' attention while enriching their comprehension of sorting algorithms
- Created the frontend using JavaScript, integrating functionalities for adjusting sorting speed and variations across arrays of diverse sizes
- Incorporated 5+ key sorting algorithms, utilizing their characteristics to demonstrate their performance across diverse values and lengths

Rubik's Cube Solver - using Korf's IDA* Algorithm | [Korf's Research Paper](#)

[Github](#)

- Modelled a virtual Rubik's Cube (3 x 3) in 3 different models/classes (3D Array Model, 1D Array Model, BitBoard Model)
- Implemented OPPS concepts like Classes and Objects, Virtual Functions and Abstract Classes, Inheritance, Operator Overloading
- Achieved a solving time of under 3 seconds for a Rubik's Cube jumbled 8 times, using BFS, DFS, and IDDFS algorithms
- Implemented the Korf's IDA* Algorithm, achieving a solving time under 10 seconds for a Rubik's Cube jumbled 13 times

Skills

Languages: C, C++, Python, HTML, CSS, JavaScript, SQL, Object Oriented Programming (OOPS)

Frameworks: Next JS, Node JS, Express JS, Bootstrap, Tailwind-CSS, Material UI,

Libraries and Databases: ReactJS, Redux Toolkit, React Router, MySQL, MongoDB

Developer Tools: Git, Github, Gitbash, VS Code

Soft Skills: Team Management, Interpersonal and Intrapersonal Skills, Public Speaking, Content Writing

Certificates and Achievements

- **3 star coder on CodeChef** (highest rating - 1603)
- Secured a global **rank 327** in Starters116, and global **rank 677** in Starters 120 '24