SHIVAM GUPTA

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Education

Indian Institute of Information Technology Bhopal, India   **December 2022 - June 2026**
Bachelor of Technology in Computer Science and Engineering   ***CGPA: 8.2*** *(upto 3rd Sem)*

Hanraj Modern Public School, Jhansi   **March 2020 - March 2022**
XII CBSE BOARD   ***91%***

CKC Academy, Jhansi   **March 2008 - March 2020**
X CBSE BOARD   ***93%***

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

ERP login Project | *HTML,CSS ,Javascript and Djnago*   [Github]

- Developed secure authentication and access control features for an Enterprise Resource Planning (ERP) system.
- Designed and developed user-friendly login interfaces using HTML, CSS, and JavaScript for seamless user interaction.
- Integrated backend functionalities using Python and Django framework to manage user credentials and session management.

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

Position of Responsibility

- **Created awarenes among cse juniors(1st year) for competetive programming in codame sessions**
- Taught 100 juniors about djano in niimack(annual event)

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