Harsh Kumar

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Education

IIT (ISM) Dhanbad	Expected May 2025
Bachelor of Technology (GPA: 7.51)	*Dhanbad, Jharkhand*

- **Relevant Coursework:** Computer Programming (C and C++), Data Structures and Algorithms (C++), Numerical Methods, Probability & Statistics, Operations Research, Microprocessors and Microcontrollers, Analog and Digital Electronics, Control System Modelling (MATLAB), Power Electronics, Signal System and Network

Experience

Apiero-Medica	May 2024 - July 2024
Fullstack Developer Intern	*Bhopal, Madhya Pradesh*

- Assisted in all aspects of the software development lifecycle including building, testing, improving, and deployment.
- Worked on secure signup and login systems with OAuth integration for enhanced user authentication.
- Fixed multiple bugs for the team adding a custom chatbot for the website.
- Worked with technologies like Node & Express js, Axios, RESTful API, and MongoDB.

Projects

Chat App | *React.js, MongoDB, Node.js, Express.js, Postman, JWT, Socket.io*
- Built a full-stack chat application with group chat functionality using the MERN stack.
- Designed secure login and registration flows, ensuring encrypted password storage with Bcrypt and token-based authentication with JSON web tokens.
- Implemented real-time messaging with Socket.io, enabling one-on-one and group chat functionalities.

Todo List | *Node.js, Express.js, Postgres, EJS, HTML/CSS*
- Developed to-do list application using Node.js and Express.js for the backend and PostgreSQL for data persistence.
- Implemented CRUD operations to manage to-do items, allowing users to add, edit, and delete tasks.
- Integrated middleware to handle form submissions and process user inputs.

Sorting Visualiser | *React.js*
- 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 users to change the size of arrays and animation speed.

Technical Skills

Languages and CS-Fundamentals: C, C++, Python, Java, Javascript, OS, DBMS, Computer Networks, System Design.
Technologies and Frameworks: Git and Github, Bootstrap, jQuery, React.js, Express.js, Node.js, Axios, Socket.io, MongoDB, Postgres, SQL and NoSQL databases, Rest API.

Sports Programming

- 2nd Runner Up - Black Box - Concetto 2022.
- Rated 1742 on Leetcode, 1723 (3-Star) on Codechef and 6-Star on Hackerrank.
- Solved 1000+ questions across multiple coding platforms.

PORs and Social Engagements

Head: Content, Design and Promotion at Manthan, IIT Dhanbad.
Guitarist: Manthan, music club of IIT Dhanbad.
Winner: Harmony, band competition organised in the cultural fest Srijan 2023.
Event Organising Team: Srijan'24 - Annual socio-cultural festival of IIT Dhanbad.
Inter-IITs: Guitarist for college band in Cultural Inter-IIT competitions at Madras (2023) and Kharagpur (2024).