

Madhavi Porte

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Bilaspur, Chhattisgarh, India

EDUCATION

Indian Institute of Information Technology, Ranchi

Ranchi, India

Bachelor of Technology in Computer Science and Engineering

Aug 2023 – May 2027

- Relevant Coursework: Data Structures, Algorithms, Database Management Systems, Operating Systems, Computer Networks, Object-Oriented Programming

Sheryians Coding School

Online

Full Stack Web Development Certification

Sep 2025 – Feb 2026

- Specialized training in modern web development technologies and industry best practices

TECHNICAL SKILLS

Programming Languages: C++, Python, JavaScript, SQL

Web Technologies: React.js, HTML5, CSS3, Tailwind CSS, Node.js, Express.js

Databases: MySQL, MongoDB, PostgreSQL

Developer Tools: Git, GitHub, VS Code, Linux, Postman, Docker

Frameworks & Libraries: React.js, Next.js, Redux, Bootstrap, Material-UI

Core Competencies: Data Structures, Algorithms, Object-Oriented Programming, RESTful APIs, Responsive Web Design

PROJECTS

E-Commerce Platform | *React.js, Node.js, Express.js, MongoDB, Tailwind CSS*

2025

- Developed a full-stack e-commerce web application with user authentication, product catalog, shopping cart, and payment integration
- Implemented RESTful API with Node.js and Express.js, handling 1000+ concurrent requests efficiently
- Designed responsive UI using React.js and Tailwind CSS, improving user engagement by 40%
- Integrated Stripe payment gateway and implemented JWT-based authentication for secure transactions

Algorithm Visualizer | *React.js, JavaScript, CSS3*

2024

- Built an interactive web application to visualize sorting and pathfinding algorithms including Quick Sort, Merge Sort, Dijkstra's, and A*
- Implemented real-time algorithm animations with adjustable speed controls and step-by-step execution
- Enhanced understanding of algorithmic complexity through visual representation, used by 500+ students

Task Management System | *Python, SQL, Tkinter*

2024

- Created a desktop application for task tracking with features for creating, updating, and organizing tasks by priority
- Designed normalized database schema with SQL, implementing CRUD operations with optimized queries
- Developed intuitive GUI using Tkinter with drag-and-drop functionality and calendar integration

ACHIEVEMENTS & ACTIVITIES

Competitive Programming: Solved 300+ problems across LeetCode, CodeChef, and Codeforces platforms

Hackathon Participant: Participated in 2+ hackathons, collaborating in teams to build innovative solutions under time constraints

Open Source Contributions: Active contributor to open-source projects on GitHub, improving documentation and fixing bugs