

RAHUL KUMAR SINGH

Software Developer

Raipur, Chhattisgarh

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EDUCATION

National Institute of Technology, Raipur (NIT Raipur)

Bachelor of Technology in Electronics and Communication Engineering

2023 – Present

CGPA: 9.01/10.0

Delhi Public School, NTPC Korba

Senior Secondary (X) - 97.4% — Secondary (XII) - 95.4%

2018-2022

CBSE ,AISSCE

TECHNICAL SKILLS

- **Programming Languages:** C++ (Advanced), Python (Intermediate), JavaScript (Proficient)
- **Web Technologies:** React.js, Node.js, Express.js, MongoDB, RESTful APIs, HTML5, CSS3, TailwindCSS
- **Developer Tools:** Git, GitHub, VS Code, MATLAB, Figma, Canva, Adobe Illustrator, CapCut
- **Databases & Tools:** MySQL, PowerBI, MS Excel
- **Key Competencies:** Data Structures, Algorithms, Object-Oriented Programming, MERN Stack Development

EXPERIENCE

GirlScript Summer of Code

Open Source Contributor

May 2024 - Aug 2024

Remote

- Engineered responsive navigation components for a Movie Recommender platform, improving mobile user experience by 40% using React.js.
- Collaborated with 10+ developers using Git workflow, maintaining 100% code quality standards through code reviews.
- Developed a machine learning model for movie recommendations with Python, increasing accuracy by 15%.

OpenLinks Foundation

Technical Mentor

Sep 2024 - Present

Raipur

- Developed an educational web platform using the MERN stack, improving resource accessibility by 60% for students.
- Implemented an automated assessment system with Node.js, reducing manual grading time by 75%.
- Mentored 30+ students in programming fundamentals, achieving a 90% success rate in skill development.
- Received appreciation from the Foundation and Collector of Raipur (Dr. Gaurav Kumar Singh, IAS) for contribution and dedication.

SOFTWARE PROJECTS

RockSense - ML-Powered Rock Analysis Platform | Link

2024

- Developed a full-stack rock classification platform using FastAPI for the backend, React.js for the frontend, and deployed via Render and Vercel, ensuring high availability and scalability.
- Engineered an ML pipeline leveraging K-means and DBSCAN clustering algorithms, achieving 95% accuracy while reducing classification time by 60%.
- Integrated RESTful APIs with FastAPI, enabling seamless data processing for over 1000+ rock samples in real-time.
- Built for a Hackathon project, demonstrating rapid prototyping, cross-functional collaboration, and problem-solving skills under tight deadlines.

Full Stack Web Applications | Weather App, SunDown Studio, E-Commerce Site

2024

- Built Weather App integrating OpenWeather API with 99.9% uptime, serving 10+ daily requests
- Developed Studio with HTML CSS JS, achieving 60fps performance and 2-second load time
- Created E-Commerce site using React.js and Redux, implementing user authentication and Shopping Cart integration
- Created CodeUtsava 8.0 site using HTML, CSS, JavaScript, implementing Home Page and Event Details

Personal Portfolio | Link

2024

- Designed and developed personal portfolio website using HTML, CSS, and JavaScript
- Showcases projects, skills, and achievements with a user-friendly interface

LEADERSHIP & ACHIEVEMENTS

- **Tech Lead, IEEE Student Branch** : Led a team of 5 developers and 3 editors to successfully organize a 3-days International technical event.
- **Team Leader, CodeUtsava 8.0** (Link): Led a team of 4 in Central India's largest hackathon, achieving outstanding results.
- **Competitive Programming**: Solved 170+ DSA problems on platforms like LeetCode and GeeksForGeeks.
- **Winner, New India Festival** (Link): Awarded by Member of Parliament, Shri BrijMohan Agrawal for innovation and problem-solving.
- **Sponsorship Lead, Eclectika** (Link): Managed to collect sponsorship funds exceeding 75,000 for the event