

RAHUL KUMAR SINGH

Software Developer

Raipur , Chhattisgarh

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EDUCATION

National Institute of Technology, Raipur (NIT Raipur)

2023 – Present

Bachelor of Technology in Electronics and Communication Engineering

CGPA: 9.01/10.0

Delhi Public School, NTPC Korba

2018-2022

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

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 and Editor 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

SOFTWARE DEVELOPMENT EXPERIENCE

GirlScript Summer of Code

May 2024 - Aug 2024

Open Source Contributor

Remote

- Engineered responsive navigation components for Movie Recommender platform, improving mobile user experience by 40%
- Implemented 5+ reusable React components, reducing development time by 25%
- Collaborated with 10+ developers using Git workflow, maintaining 100% code quality standards
- Developed a machine learning model for movie recommendations, increasing accuracy by 15%
- Received positive feedback from maintainers for code quality and documentation

OpenLinks Foundation

Sep 2024 - Present

Technical Mentor

Raipur

- Developed educational web platform serving students, improving resource accessibility by 60%
- Implemented automated assessment system reducing manual grading time by 75%
- Mentored 30+ students in programming fundamentals, achieving 90% success rate
- Received appreciation from Foundation and Collector of Raipur(Dr. Gaurav Kumar Singh(IAS) for outstanding contribution and dedication

SOFTWARE PROJECTS

RockSense - ML-Powered Rock Analysis Platform | GitHub Repo

2024

- Architected full-stack application processing 1000+ rock samples with 95% accuracy
- Implemented K-means and DBSCAN clustering algorithms, reducing classification time by 60%

PalmPal - Gesture Control System | GitHub Repo

2024

- Developed real-time hand gesture recognition system achieving 98% accuracy in cursor control
- Optimized MediaPipe implementation reducing latency by 40% for smooth tracking
- Conducted user testing and received positive feedback on usability and accuracy

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 , JS implementing Home Page and Event Info

LEADERSHIP & ACHIEVEMENTS

- Tech Lead, IEEE Student Branch: Managed team of 5 developers and 3 editor delivering a 3-days successful technical events
- Led team of 4 in Central India's Largest Hackathon CodeUtsava 8.0
- Secured rank of 11 in Craft your Resume by SAHYOG Club
- Competitive Programming: Solved 150+ DSA problems on LeetCode and GeeksForGeeks
- Winner, New India Festival: Recognized by Member of Parliament - Shri BrijMohan Agrawal