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 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, JavaScript, implementing Home Page and Event Details

Personal Portfolio | Live Demo — **2024**
- Designed and developed personal portfolio website using HTML, CSS, and JavaScript
- Showcases projects, skills, and achievements with a user-friendly interface
- Responsive design ensuring seamless experience across devices

LEADERSHIP & ACHIEVEMENTS

- Tech Lead, IEEE Student Branch: Led a team of 5 developers and 3 editors to successfully organize a 3-day technical event.

- Team Leader, CodeUtsava 8.0: Led a team of 4 in Central India's largest hackathon, achieving outstanding results.

- Competitive Programming: Solved 150+ DSA problems on platforms like LeetCode and GeeksForGeeks.

- Winner, New India Festival: Awarded by Member of Parliament, Shri BrijMohan Agrawal.

- Sponsorship Lead, Eclectika - Central India's Largest Cultural Festival: Managed to collect sponsorship funds exceeding 50,000 for the event.