

Khagendra Parashar

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Education

National Institute of Technology, Raipur
B.Tech in Electronics & Communication Engineering

2022 – 2026
CGPA: 8.00/10

Experience

Intern, Rajasthan Electronics & Instruments Limited (REIL)
Jaipur, India

May 2024 – Jun 2024

- Automated testing workflows for manufacturing processes using **Python**, reducing manual testing time by 30% and increasing efficiency.
- Participated in hardware diagnostics and troubleshooting, leading to a **15% reduction in system errors**.
- Worked closely with senior engineers to develop innovative solutions for electronics manufacturing challenges, enhancing product quality.

Technical Projects

Multiplayer Online Chess Platform
Personal Project

Sep 2024 – Present

- Developed a robust and scalable **online chess platform** using **Node.js**, **Express**, and **MongoDB**, enabling real-time multiplayer gameplay.
- Implemented a **WebSocket-based architecture**, supporting seamless communication for over **10,000 simultaneous connections**.
- Optimized gameplay mechanics to ensure a **99.9% uptime** and reduced response latency by 20%.
- Designed a user-friendly, responsive interface using **Tailwind CSS** for cross-platform compatibility.

kisanseva.ai: Farmer Assistance Platform
Personal Project

Sep 2024 – Present

- Created **kisanseva.ai**, a voice-enabled platform providing real-time **soil analysis** and **crop disease prediction**.
- Integrated machine learning models with 85% accuracy to deliver precise recommendations for farmers.
- Utilized the **MERN stack** to handle 500+ daily users and deployed the platform on **AWS** for scalability.
- Streamlined API calls and reduced response latency by **25%**, enhancing user experience.

Skills

Languages: C++, JavaScript, Python, SQL (Basic)

Web Development: HTML, CSS, React.js, MongoDB, Express.js, Node.js, WebSockets

Tools: Git, AWS, VS Code, Xcode, Jupyter Notebooks

Core Concepts: OOPS, OS, DBMS, DSA (Data Structures and Algorithms)

Achievements: Solved 500+ DSA problems on LeetCode, CodeChef, and GFG

Positions of Responsibility

Coordinator, Robotix Club, NIT Raipur
NIT Raipur

2023 – Present

- Planned and conducted hands-on **robotics workshops**, training 50+ participants in hardware and software integration.
- Led a team of students to develop innovative robotics solutions, securing **1st place** in multiple inter-college events.
- Mentored junior club members on advanced robotics concepts, ensuring the club's consistent performance in competitions.

Achievements

Finalist in **Adobe Gensolve 2024**, recognized for innovative problem-solving in software solutions.

1st place in Hackathon at **NEC Durgapur**, leading a team of 4 to design an efficient monitoring system.

4-star rating on CodeChef (Rating: 1824) and **1763 rating on LeetCode**.

Runner-up in the **Flipkart Grid Contest**, praised for developing scalable and efficient software solutions.