

# 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)

May 2024 – Jun 2024

Jaipur, India

- 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

Sep 2024 – Present

Personal Project

- 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

Sep 2024 – Present

Personal Project

- 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.

### AlgoViz3D: Data Structures & Algorithms 3D Visualizer

Oct 2024 – Present

Personal Project

- Created an interactive 3D visualization platform for complex algorithms using Three.js and React, rendering advanced data structures and algorithmic processes.
- Implemented real-time animations of pathfinding, sorting, and graph algorithms with performance metrics visualization.

## 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)

## Positions of Responsibility

### Coordinator, Robotix Club, 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.
- Solved 500+ DSA problems on LeetCode, CodeChef, and GFG