PARAG CHIMANKAR | 23CS10049
Indian Institute of Technology Kharagpur

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EDUCATION

Year	Degree/Exam	Institute	CGPA/Percentage
2025	B.Tech, Computer Science and Engineering	Indian Institute of Technology Kharagpur	8.70
2023	Class XII, MSBSHSE	Sharda Vidyaniketan, Akola	84.50%
2021	Class X, CBSE	Noel School, Akola	99.00%

INTERNSHIPS AND PROJECTS

Computer Vision (Python): Median Line & Global Planner | Technology Robotics Society, IIT Kharagpur
○ Worked on a group project recreating Python OpenCV functionality through core scripts instead of predefined libraries
○ Formulated edge detection algorithms from scratch using gradient method and Sobel edge detection logic
○ Developed custom functions for median line detection and visual representation of detected features
○ Collaborated with team members to integrate various detection algorithms into a cohesive, functional codebase

2D RPG Game (Soul Magician) | Computer Graphics Society, IIT Kharagpur
○ Developed a 2D RPG game in Unity with optimized gameplay mechanics to enhance player engagement
○ Built intuitive user interface using UI Canvas system for inventory management, health tracking, and item pickup interactions
○ Enhanced visual experience through screen management, particle effects, dynamic lighting, and smooth camera controls
○ Implemented complex character and attack animations utilizing multiple game objects and diverse sprite assets
○ Created responsive game mechanics ensuring straightforward accessibility while maintaining engaging gameplay

RC Camera Rover | DIY Project
○ Designed and built a remote-controlled rover with real-time video capabilities using Arduino microcontrollers
○ Implemented control systems in C++ for precise motor management and vehicle navigation
○ Developed WebSocket architecture for low-latency communication between rover and control interface
○ Created custom web interface for browser-based controls and camera monitoring over local network

IFSS | Software Engineering Course Project
○ Developed tax optimization software with auto-filled ITR forms and CA integration for professional consultation
○ Implemented AI-powered document summarization for extracting and highlighting key tax information
○ Designed inbox system and database architecture using MongoDB for secure tax data management
○ Built high-performance C++ backend hosted on Python server for scalable processing capabilities
○ Utilized nlohmann JSON library for efficient data exchange between frontend and backend components

SKILLS AND EXPERTISE

○ **Programming Languages:** C | C++ |C# | JavaScript | Python | CSS
○ **Softwares/Developer Tools :** GitHub | VScode |Visual Studio | Unity Engine| Jupyter | Sublime | Canva
○ **Frameworks and Libraries:** Numpy | Pandas | React | Next | Flask | NodeJS | MatplotLib | Seaborn | Tailwind | BootStrap

COURSEWORK INFORMATION

○ Probability and Statistics, Data Structures and Algorithms, Discrete Structures, Systems Programming , Software Engineering

POSITIONS OF RESPONSIBILITY

Senior Game Developer | Computer Graphics Society, IIT Kharagpur   June'24 - Apr'25
Collaboratively developing 3D Game "Footsteps Echoes" in Unity and independently designed and developing prototype game the 2D game "Portal Man"; Provided mentorship and technical guidance to junior developers over the course of the year through workshops and seminars.

Associate Member |Spring Fest, IIT Kharagpur   Sept'23 - Feb'24
Formed and leaded team of Campus Ambassadors from colleges across India meanwhile publicising the event in Nation's esteem News agencies.Coordinated with Spring Fest team of 100+ people during fest.

Core Team Member | Organising Team InterIIT Cultural Meet 6.0   Dec'23 - Jan'24
Collaborated with a dynamic team to manage Accommodation, Logistics, and Events, ensuring smooth coordination and successful execution.

AWARDS AND ACHIEVEMENTS

○ Secured All India Rank of 3976 in JEE Advanced 2023
○ Secured All India Rank of 5121 in JEE Mains 2023
○ Awarded NTSE Scholarship in 2020 by NCERT
○ Secured 3rd Rank in Vidyarthi Vigyan Manthan, Maharashtra state in year 2020

EXTRA CURRICULAR ACTIVITIES

○ Part of the Silver-winning Rangoli 2024 team of Rajendra Prasad Hall of Residence
○ Part of NSO Tennis, while being the Semester leader for fourth semester.