



Utsah
UG (II Year II Semester)
B.Tech. (Chemical Engineering)
Contact No: 9315117745
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Registration No: 22112109/2024



Area of Interest

Backend Development, Product Design, UI/UX design

Education

Year	Degree/Examination	Institution/Board	CGPA/Percentage
2024	B.Tech. 2nd Year	Indian Institute of Technology, Roorkee	7.112
2022	Intermediate (Class XII)	Gyanodaya Public School, Dindarpur, Najafgarh (CBSE)	92.00 %
2020	Matriculate (Class X)	DAV Public School, Dwarka, Sector-6 (CBSE)	97.00 %

Internships

Backend Developer Intern | VJ Nucleus May 2024 - Present

- Developed a scalable backend system from scratch using **Django REST Framework** integrating machine learning models (TensorFlow/PyTorch) for automated test analysis and compatibility testing.
- Designed **PostgreSQL schemas** for efficient storage and retrieval of user data, test information, and resources
- Optimized backend performance and automated testing using **Nginx, Gunicorn, Docker and CI/CD pipelines**.

Projects

Social Media Platform | ArIES, IIT Roorkee May 2024 - June 2024

- Developed and implemented key features of a social media platform using Django/SQLite. Utilized WebSockets and Django Channels for real-time communication. Implemented custom user authentication with encryption.
- Developed core features including secure user authentication with profile customization, private messaging functionality, and a dynamic news feed. Developed problem-solving skills in troubleshooting and resolving issues

Forminator | IMG IIT Roorkee January 2024 - Present

- Led the redesign of Forminator, a campus-wide form creation application used by 10K+ users. Improved usability, accessibility (WCAG compliance), and user experience through qualitative and quantitative research, heatmap analysis.
- Collaborated with stakeholders to balance design with administrative restrictions and data security concerns. Utilized React, Redux, and accessibility best practices to deliver a user-friendly and compliant experience.

Gym Pravesh | IMG IIT Roorkee April 2024 - Present

- Gym Pravesh is a gym management app for administrators to access detailed statistics, filter data by degree, gender, and entry logs, and visualize information with charts.
- It also allows students and faculty to efficiently scan their ID cards for seamless entry and exit tracking.

Awards / Scholarships / Academic Achievements

- First Position** in the Break-a-Sphere 1.0 - Internal Hackathon organised by Information Management Group IITR
- First Position** in the HexCode 1.0 - campus-wide Designathon organised by Design Studio IIT Roorkee
- First Position** in Documentary Making in FMC Weekend IITBHU coordinating with a team of 6 members.
- Finalist** in Syntax Error X Ethereum track in nation-wide hackathon organised by SDS Labs IITR
- AIR 4876** - JEE ADV 2022
- AIR 11015** - JEE MAINS 2022

Skills

Computer languages	C++, Python,HTML,Javascript, bash scripting
Software Packages	Django REST framework, Django ORM, MySQL, sqlite3, Docker, Azure, VScode, Postman, Linux, Git, Github, Numpy, Pandas, Matplotlib, Figma, Miro, Blender, Adobe suite - PS, AI, PrPro, AE
Languages Known	Hindi (SRW), English (SRW)

Positions of Responsibility & Extra Curriculars

Project Leader | Information Management Group, IIT Roorkee April 2023 - Present

- IMG is student group responsible for innovation, development and maintenance of IITR official internet and intranet systems, including the IIT Roorkee official website and Channel i (true intranet portal of IITR).
- Actively led the re-design of Forminator app which is used by 10k+ students and faculty members of campus.
- Designed Gym Pravesh app from scratch which is advanced gym management app designed for administrators and eases entry and exit in IIT Roorkee central gym with daily footfall of 200+ students and faculty members.

Vertical Head - Design | onRec IIT Roorkee January 2023 - Present

- onRec is official podcasting club of IIT Roorkee. Organised and actively managed many campus-wide initiatives.
- Streamlined design such that it is user-friendly and visually appealing to be promoted to the masses.
- Anchored podcasts of various distinguished guests and speakers like Head of Design at CRED - Atul Khola.

Design Volunteer | Cognizance IIT Roorkee

December 2022 - March 2023

- Coordinated the design efforts for the 2nd largest technical fest in Asia with the participation of 3,000+ students.
- Produced engaging posters and digital banners, and designed physical flexes, banners, and brochures for various events.

Member | Photography Section

January 2023 - Present

- Actively participated in organisation of **Drishya - annual Photography Exhibition** which had a footfall of 10k+ people

Operations Manager and Branch Coordinator | SMP IIT Roorkee

June 2023 - Present

- Worked with a team of 30+ members in management and operations of the events related to guidance and mentorship of Biotech and Economics branches. Overseeing management initiatives for 100+ students.

Participant MixMatch Hackathon | SDS Labs IIT Roorkee

April 2024

- Participated and successfully completed the project in campus-wide Design Hackathon annually.
- Enhanced the **onboarding process for a health analysis app** to ensure it is user-friendly for older individuals.

Winner Break-A-Sphere Hackathon | Information Management Group, IIT Roorkee

March 2024

- Led the full-stack development of an innovative emergency response app during a hackathon. Facilitated Severity-based ambulance booking to improve **Emergency Medical Services (EMS)**.
- My responsibility was to designed and trained a **spaCy model for Named Entity Recognition** to extract vital information from voice calls whcih provided users with actionable first-aid tips.

Participant Photoart | FMC Weekend IITBHU

October 2023 - November 2023

- Created a digital artwork for the FMC Weekend Photoart event, demonstrating proficiency in Photoshop.

References

Dr. Anshu Anand

Associate Professor

Indian Institute of technology, Roorkee

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