

RUDRAKSH MITTAL

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Saharanpur, Uttar Pradesh – 247121, India

EDUCATION

B. Tech in Computer Science Engineering, UPES

August 2022-Present
Dehradun, India

D.A.V Public School, Saharanpur

Class XII, PCM

April 2021- March 2022
Saharanpur, India

D.A.V Public School, Saharanpur

Class X

April 2019- March 2020
Saharanpur, India

SKILLS

- **Languages:** C, C++, C#, HTML/CSS/JS, PHP, Kotlin
- **Databases:** MySQL
- **Frameworks:** Unity Engine, AR
- **Tools/Software:** Git, Unity, Android Studio, Blender, Adobe Creative Suite (Photoshop, Illustrator, Premiere Pro), MS Office Suite (Excel, Word, PowerPoint)
- **Relevant Coursework:** Data Structures and Algorithms, Object Oriented Programming (OOP), Database Management Systems (DBMS), Operating Systems, Web Development

INTERNSHIP

IBM Internship | Remote

June 2025- July 2025

- Worked on a real-time ray tracing project using Unity HDRP, focusing on realistic lighting and reflections.
- Researched and implemented GPU-based rendering techniques to enhance real-time graphics performance.

Kal Sunehra Foundation | Saharanpur, India

June 2023 - July 2023

- **Front-End Development: Led the design and implementation of an educational website, focusing on responsive design, user experience, and performance optimization.**
- Designed the NGO's logo and optimized digital assets for web and print, ensuring brand consistency across digital platforms and enhancing visual engagement.
- **Community Impact:** Organized **tree-planting drives** and a **ration program** for underprivileged women.

PROJECTS

Real-Time Ray Tracing in Unity HDRP | IBM Internship

June 2025

- Developed a **real-time ray tracing pipeline** in Unity HDRP using C# and advanced rendering techniques.
- Implemented **ray-traced reflections, shadows, and global illumination** for photorealistic rendering.
- Optimized shaders and lighting for **real-time performance on GPUs**.

Mobile Apps Projects | Android Studio, Kotlin

September 2024

- Built a Meeting Organizer app in Kotlin with features like event scheduling, reminders, and calendar syncing.
- Developed a series of basic Android apps using Kotlin, including a quiz game, calculator, and other utility apps to strengthen foundational mobile development skills.

Portfolio Website | HTML, CSS, JS, PHP, SQL | [Link](#)

February 2024

- Developed a responsive portfolio site with HTML, CSS, and JavaScript, optimizing for mobile and desktop.
- Showcased project details through an intuitive and user-friendly interface.

ACHIEVEMENTS

- Delivered 200+ web development projects for external partners using PHP, MySQL, HTML, CSS, and JavaScript.
- Developed and deployed 10+ Python automation projects for professional environments, streamlining workflows and improving efficiency
- Won **Silver Medal** in Inter-College **Yoga Competition**.

EXTRACURRICULAR

- **Participated in coding hackathons, workshops, or tech events**
- Member of **college clubs / community initiatives**