

# Rudraksh mittal

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## EDUCATIONAL BACKGROUND

### UPES University

B. Tech in Computer Science Engineering Specialization in Graphics and Gaming (CGPA: 7.28)

Dehradun, Uttarakhand IN

August 2022 – Present

### D.A.V Public School, Saharanpur

PCM

(Percentage: 70%)

Saharanpur, IN

2018-2022

## TECHNICAL SKILLS

**Languages:** HTML/CSS/JS, XML,PHP, SQL,Kotlin,  
C, Java, C#  
**Frameworks:** Unity Engine, AR  
**Tools:** Git, Adobe Photoshop, Adobe Illustrator,  
Adobe Premiere Pro, MS Exel, MS  
World, MS PowerPoint

## PROJECTS

### Real-Time Ray Tracing in Unity HDRP | IBM Internship

- 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**.

### OpenGL Game | C++

- Developed a 2D interactive game using OpenGL in C++.
- Implemented physics simulations and optimized graphics for smooth performance.

### AR/VR Projects | Unity Engine, C#

- Created immersive experiences using C# and Unity Engine.
- Designed interactive 3D environments integrating AR/VR technologies.

### Portfolio Website | HTML, CSS, JS, PHP, SQL

- Built a responsive personal portfolio website using HTML, CSS, and JavaScript.
- Showcased project details and provided an intuitive user interface.

## INTERNSHIP

### IBM Internship | Remote

- Worked on **real-time ray tracing project in Unity HDRP**
- Researched and implemented **GPU-based rendering techniques**.

June 2025 – July 2025

### Kal Sunehra Foundation | Saharanpur, India

- Front-End Development:** Led development of an **educational website**.
- Designed the NGO's **logo** and optimized digital assets
- Community Impact:** Organized **tree-planting drives** and a **ration program** for underprivileged women.

May 2024 – August 2024

## ACHIEVEMENTS

- Certified in **C Programming** – HackerRank
- Participated in **UPES Hackathon 7.0** (CSI Student Chapter).
- Completed **Social Internship** on community development.

## EXTRACURRICULAR

- Member – **Hypervision Student Chapter** (Design Team)
- Member – **CSI Student Chapter** (Design Team)
- Volunteering – **Social Internship Programs**

2023

2023-2024

2023 - 2024