

# Himanshu Kushwah

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## Education

<b>Vellore Institute of Technology</b> <i>B.Tech - CSE (Specialization in Gaming Technology)</i> <i>Nov 2022 – Ongoing</i> GPA: 9.03/10	<b>Kendriya Vidyalaya Sangathan, Lucknow</b> <b>Class XII</b> ; Percentage: 93.4% <i>2022</i> <b>Class X</b> ; Percentage: 92.8% <i>2020</i>
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## Skills

- **Game Development:** Unreal Engine 5 (Blueprints), Unity 3D (C# Basics)
- **Game Design:** Level design, concept art generation
- **Art & Media Tools:** Krita, Adobe Photoshop, DaVinci Resolve
- **Programming & Databases:** Python, MySQL

## Projects

<b>Valdoria: The Lost Capital (Solo Project, Unreal Engine 5)</b>	<i>Feb 2025 – Present</i>
<ul style="list-style-type: none"><li>◦ Designed and built a semi-open world RPG spanning <b>5 unique biomes</b>, each with distinct lighting, terrain, enemy encounters, and boss arenas using <b>UE5's Nanite landscapes</b> and <b>Quixel assets</b>.</li><li>◦ Engineered a collectible-based progression system where players gather <b>Solar Hearts</b> to unlock new areas and advance <b>9 years</b> in-game, integrating lore via scattered notes and hidden quests.</li><li>◦ Iteratively improved combat system architecture: transitioned from blueprint duplication → conditional logic → <b>enums</b> → <b>gameplay tags</b>, showcasing clean state-driven design with scalability in mind.</li><li>◦ Achieved real-time performance of <b>30–45 FPS on mid-tier hardware</b>; actively refining shaders, LODs, and landscape streaming for future stability.</li><li>◦ Currently developing an AI system featuring <b>10+ enemy archetypes</b>, using <b>Behavior Trees</b> to implement patrol, chase, and attack logic.</li></ul>	
<b>AR Tennis Game (Group Project, Unity 3D)</b>	<i>Jan 2024 – Apr 2024</i>
<ul style="list-style-type: none"><li>◦ Developed a real-time <b>gesture-controlled tennis game</b> for PC using a webcam, enabling <b>hands-free interaction</b> via palm and color-based tracking using <b>OpenCV</b> and <b>Unity</b>.</li><li>◦ Achieved stable performance of <b>60 FPS</b> with near-zero latency using optimized frame processing and a calibrated input zone for palm gestures.</li><li>◦ Implemented <b>UDP networking</b> to support continuous left/right gesture input without connection overhead or order dependence, ensuring real-time responsiveness.</li><li>◦ Collaborated in a <b>5-member team</b> over 2 months, contributing to gameplay logic and the <b>computer vision algorithms</b> showcased during <b>Project Exhibition 2</b>.</li><li>◦ <b>Tools Used:</b> OpenCV, Python, Unity 3D, TCP/UDP Networking, Computer Vision Algorithms.</li></ul>	

## Extracurricular Activities and Certifications

<b>Member:</b> Virtual Reality and Gaming Club (VRGC)	<i>Nov. 2022 – Present</i>
<b>AWS:</b> AWS Solutions Architect – Associate Certification Program	<i>Jan. 2025 – Apr. 2025</i>
<b>Ethnus:</b> Adobe UI / UX (Graphics Design)	
<b>Meta:</b> Unity and C# Basics – Coursera	
<b>NPTEL:</b> Foundations of Cyber Physical Systems, IIT Kharagpur	
<b>Udemy:</b> UE5 UI Design : Advance Inventory System and Combat Design	