

Dhruv Bhojaraj

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EXPERIENCE

Next Tech Lab

Nov 2022 - Present

Board Member

- QS award-winning student-led research lab of 5 departments dedicated to working on latest technologies in their fields, including ML, Game and App Development, Extended Reality, Cryptography/Cyber-Security and IOT.
- Handled Management of Pausch Lab, taking interviews and handling events such as game-jams.

Smollan (for Google)

Sep 2024 - Jan 2025

AR Unity Developer

- Created multiple prototypes for google interactive advertisements using Unity UI Toolkit
- Built an AR application for furniture placement, allowing users to optimize and customize their interior design in real-time.

InsightXR

Feb 2024 - May 2024

Unity VR developer

- Constructed InsightXR's Package for Unity VR development, including sample scenes, documentation, API etc.
- Devised the main pipeline for motion data and hand pose serialization, motion replay and WebGL export, combined with AWS S3 deployment

Realm18 Studios

Sep 2022 - Oct 2023

Assistant Story Writer and Terrain Modeller

- Created Terrain in Unity using sculpting tools and texture painting, used Blender to make initial design
- Made story elements for the game, including character back story, world lore, etc

EDUCATION

SRM Institute of Technology, Chennai, Tamil Nadu, India

Sep 2022 - Jun 2026

Bachelors in Computer Science

Relevant Coursework : Metaverse (Digital Twinning), Computer Graphics and Animation.

Relevant Certifications : Unity VR Development, Unity Mobile AR Development

PERSONAL PROJECTS

Titles as Links

Wand Game VR | Unity3D, XR Interaction Toolkit, Blender, C#, NewtonSoft JSON.Net

- Spell casting VR experience to give the player the power to draw shapes and letters in the air for different actions
- Utilizes Procrustes analysis for letter recognition, resulting in nearly instantaneous response times.
- Gives open-source enthusiasts the opportunity to contribute more shapes through the modular design of the system

Walmart Interactive | Unity3D, XR Interaction Toolkit, Blender, C#, NewtonSoft JSON.Net, GLB

- Collaborated with a team of three to create a VR application for Walmart Sparkathon, integrating real-time item registration and 3D model generation pipelines.
- Designed and developed the VR front-end, enabling users to retrieve product models and data dynamically during runtime.

Project Vasundhara | Unity3D, XR Interaction Toolkit, Blender, C#, NewtonSoft JSON.Net

- VR interactive experience aimed to teach Chemistry to children from elementary to middle school.
- Helps demonstrate the connection between chemistry and the real world through minimalist 3D rendering.
- Wrote a modular crafting system that uses JSON to create recipes; Created the molecule name viewing system.

Dimension Rendering | Unity3D, AR Foundation, Blender3D

- An Augmented Reality Application that lets you place a Portal on any wall and view a different dimension. The project was inspired by Minecraft.

Ray Engine | C#, RayLib-cs

- Studied Graphics and Game Engine Design to build a simple Game framework on top of RayLib purely with C#
- Modeled the frameworks's structure after Unity's component-based architecture, enabling intuitive object management and execution flow.

SKILLS

Languages - C, C#, C++, Java, Python

Frameworks - Unity3D, Blender3D, AR Foundation, Unity XR interaction Toolkit, Raylib-cs, JSON.Net

ACHIEVEMENTS

CAD 2.0 - Won 1st Place for creating a VR application in the field of EdTech. (Project Vasundhara)

[PROJECT LINK]

Last updated January 7, 2025