

# Nandini Lashkari

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## Education

**Marwadi University**

**2022-26**

B.Tech in Information and Communication Technology

## Skills

**Programming languages:** C, C++, C # , Python , Java

**Computer software/ frameworks:** Unity 3d, Unreal Engine, Blender, Vuforia, AR Foundation, Area Target Generator, Model Target Generator, Maya, WebGL,MRTK (Mixed Reality Toolkit), Postman, YOLO, Tensorflow, ML Algorithms

## Professional experience

**Bluechip Infocorp, Rajkot**  
Unity AR Developer Intern

**May-July 2024**

- Developed AR applications using Unity & Vuforia, and deployed across WebGL.
- Mastered C# scripting and animation in Unity.
- Worked with 3 AR projects from development to deployment on multiple platforms.

## Projects & extracurricular

### VR-Based Interior Design Application

- Developed a VR-enabled interior design prototype in Unity, allowing users to explore and interact with a virtual space. The application supports non-VR mode, enabling real-time customization of key interior elements for an immersive experience..

### AR+IOT

- Developed a Smart Home Automation System using Unity, Vuforia and Blynk API that allows users to remotely monitor and control appliances in real time through both mobile and web interfaces.

### Comprehensive AR Application Using Unity and Vuforia:

- Developed a full-featured AR application that integrates all four types of Vuforia AR experiences, with visually appealing UI that allows users to select different AR types, view detailed information on how each works, and seamlessly experience them in real time

## Volunteer Experience:

- Section Student Representative SSR, IEEE Gujarat Section  
February 2025 - Present (2 months)
- Campus Outreach Officer [COO], Marwadi  
University Chapter  
January 2025 - Present (3 months)
- Chair, WIE MEFGI '24  
February 2024 - February 2025
- Circuitology Club, Tech Lead  
July 2022 - November 2024

## Patents (**Published**)

1. **AR Training Simulations for Railway Staff**  
This AR training system for railway staff offers realistic simulations for emergencies and maintenance, enhancing safety and efficiency. It provides real-time feedback, risk reduction, and scalability with AI-driven analysis and cloud support. Currently in the conceptual prototype stage, it is uniquely tailored for railway operations.
2. **Digital Lamp (Diya) Lighting Circuit**  
This digital lighting circuit for a traditional lamp (diya) enables remote control via Bluetooth, enhancing safety and convenience. It blends tradition with modern tech, making it ideal for smart homes. Its unique design meets novelty and nonobviousness criteria.
3. **Smart AR Typing Trainer Keyboard**  
The Smart AR Typing Trainer Keyboard enhances typing skills using AR projections, AI-enabled cameras, and real-time feedback. It offers customization with language options, difficulty levels, and practice modes. Integrated with a database, it tracks progress for personalized training.

## Research and Review

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- Augmented Reality in Automotive Manufacturing: Enhancing Processes with Unity and Vuforia
- VocalSwap: A Review of StarGANv2-VC for Singer-to-Singer Voice Replacement
- Integrating Augmented Reality and Machine Learning Using YOLOv3 and ARKit