

NIRMAL JEYAVELRAJ
(Unity XR Developer)

+91-89254 21582 • nirmaljeyavelraj.work@gmail.com

Education

Bachelor of Technology, Information Technology

2019-2022

Thiagarajar College of Engineering

Madurai, IN

Accomplishments:

- Engineered AR Campus Navigation App (PAMECT-AR) using Unity Game Engine. Designed and built Android app using Augmented Reality (AR) technology. Enhanced campus exploration at Thiagarajar College of Engineering (TCE). Superimposed virtual pathways, block identifiers, and location descriptions over real-world camera view represents innovative approach to campus navigation.
- Designed an android First Person Shooter Game with Real-Time Hand Gesture Recognition. A Mixed Reality (MR) android game using Unity with real-time image processing and Implemented hand gesture recognition for intuitive and immersive control to elevated engagement and interactivity in mobile gaming through MR technology.

Diploma, Electrical and Electronics Engineering

2016 – 2019

Tamil Nadu Polytechnic College

Madurai, IN

Accomplishment:

- Designed and implemented a wireless power supply system using digital electronics with wireless technology, eliminating the hassle of cables for a seamlessly connected experience. Engineered a user-friendly design that integrates diverse power sources, enhancing adaptability and ensuring optimal efficiency in power delivery.

Professional Experience

Munjal BCU Centre of Innovation and Entrepreneurship

Ludhiana, IN

Research Associate – Immersive Technology

Nov 2022 – Present

- Seasoned XR & Metaverse Developer, Specializing in Leading and crafting cutting-edge solutions tailored to diverse industries focusing on VR, AR and XR using Unity Game Engine.
- Pioneered India's 1st Physical Metaverse MSc Course and delivered engaging lectures and hands-on workshops for the innovative MSc in Applied Metaverse & Digital Leadership (India-United Kingdom degree). Shaped curriculum & mentored 350+ students in pioneering India's 1st Physical Metaverse course.

Accomplishments:

- Engineered innovative WebXR system for transformative Virtual Reality (VR) walkthroughs. Bridges design applications for immersive experiences across platforms (i.e. HMDs, Web, Mobile). Emphasizes design innovation and user interactivity, pushing boundaries of Extended Reality (XR) technology.
- Crafted a groundbreaking virtual reality experience enabling exploration of diverse marbles. AI-powered design suggestions, personalized the customer journeys, while built-in multiplayer voice chat fosters collaboration. Revolutionizing marble selection through Virtual Reality (VR) and Architecture Visualization Pro approach specifically for Oculus Quest and Quest 2 devices.

Ongoing Projects:

- Developing an Augmented Reality (AR) android application using Unity engine that creates a real-time experience of restaurant menus, projecting 3D food models onto tables for interactive exploration and instant ordering. Boosting customer engagement and accuracy, while streamlining restaurant operations through immersive food visualization.
- Programming an Artificial Intelligence-powered virtual saree try-on in a smart mirror with Unity engine, Autodesk Maya & Python with Machine Learning to revolutionizing the traditional saree shopping experience using Augmented Reality (AR) technology drapes sarees live on user's reflection and enabling virtual styling and seamless purchase to enhanced customer satisfaction, engagement, and conversion through the future of saree shopping.

Wipro Limited
Project Engineer

Chennai, IN
Apr 2022 – Jan 2023

- Served as a computer programmer specializing in delving into the realms of C# and the .NET framework. The role involved crafting applications that brought to life the vision outlined by the Team Leader, turning tasks into tangible and impactful solutions.
- Fostered a dynamic collaboration with the Quality Assurance (QA) testing team, ensuring the delivery of flawlessly executed software.

Technical Expertise

Unity	ARCore, Vuforia	Git
C#	Photon	WebXR
Virtual Reality (VR)	Oculus Quest, Quest 2 and Go	Maya
Augmented Reality (AR)	HTC Vive	SketchUp
Extended Reality (XR)	Visual Scripting	3DS Max
Metaverse	Photoshop	After Effects

Leadership and Mentorship

- Chaired as a Former Student Mentor in Thiagarajar College of Engineering, Madurai, IN (Present)
- Administered India's 1st Physical Metaverse program at Panimalar Engineering College, Chennai, IN (January, 2023) and guided students to build their own metaverse projects.
- Led and Mentored AR/VR corporate training for TVS Research and Development team (Two-Wheeler Manufacturing Plant), Hosur (2022).
- Chaired as General Secretary of Association team in Thiagarajar College of Engineering, Madurai, IN (2020 - 2022).
- Headed IT Multimedia Club in Thiagarajar College of Engineering, Madurai, IN (2020 - 2022).
- Administered Infinix 2020, Technova 2021, Cloud-a-thon 2021 & Tech Utsav 2022 at Thiagarajar College of Engineering, Madurai, IN