Jeyaraj Rahul J

✉ jeyarajrahulj@gmail.com   📞 9499901442   📍 Chennai, Tamil Nadu, India

Profile

Enthusiastic Computer Science student with a strong interest in software development, 3D design, and emerging technologies. Experienced in Unity, Blender, and VR/AR development using Vuforia. Eager to apply technical and creative skills to real-world projects and internships in immersive technology and 3D environments.

Education

Bachelor of engineering-Computer Science,   2023
Sathyabama Institute of Science and Technology   chennai

Skills

- Python
- c#
- HTML
- JavaScript

- Unity
- Blender
- CSS
- Vehicle Simulation

Projects

Sentimental analysis
Developed a responsive frontend for an E-Consultation module enabling comment submission and AI-based sentiment analysis. Integrated NLP for feedback classification and connected with blockchain backend for secure data storage. Designed interactive dashboards and improved user experience with modern UI/UX practices. ⧉
Tech ⧉ **:** React.js, HTML, CSS, JavaScript, NLP (AI), Blockchain

VR Garage Simulator
Developed an immersive VR garage simulation game where players act as mechanics working with lathe and milling machines. Designed and animated a fully functional car engine in Blender, integrated it into Unity, and implemented realistic physics and interactions for an engaging experience. Focused on combining VR mechanics, 3D modeling, and gameplay design to simulate real-world workshop environments.
Tech: Unity, Blender, VR Toolkit, C#, 3D Modeling

Vehicle Dynamics Simulation
Simulated vehicle motion and braking performance using MATLAB and Simulink as part of the Astra Racing Club. Designed and tested control systems for braking and powertrain behavior. Modeled and analyzed both electric and conventional powertrains, focusing on system response, efficiency, and safety. Contributed to improving car dynamics through simulation-based validation and performance tuning.

ExtraCurricular activities

Astral Racing Club-Braking Dynamics Team
Worked as part of the university's official racing club focused on vehicle dynamics and braking systems. Contributed to simulating car motion, designing and testing control systems, and analyzing electric and conventional powertrains using MATLAB and Simulink. Collaborated with teammates to optimize vehicle performance through simulation and testing.