Deep Pradipbhai Shah

📞 (669) 292-6916 | ✉ shahdeep9191@gmail.com | in shah--deep | ⌗ shah-deep

EDUCATION

Master of Science in Computer Science   Dec '24
San Jose State University, GPA: 3.97/4.0

Bachelor of Technology in Computer Science and Engineering   Jun '22
Indian Institute of Information Technology Vadodara, GPA: 8.27/10

SKILLS

Programming:	**C#**, C, C++, Swift, Python, PHP, Java, **JavaScript**, SQL
AR/VR Technologies:	**AR Foundations**, WebGL, WebXR, ARCore, ARKit, RealityKit, AR.js, 3D Math, Three.js
Tools:	Unity, Linux, Docker, Xcode, 3D Graphics, Adobe Aero, GitHub, Blender, Unreal Engine

WORK EXPERIENCE

AR/VR/XR Student Assistant – *eCampus, San Jose State University, San Jose, CA*   Jun '23 - Aug '24
- Spearheaded the integration of **AI** and **XR** technologies into eCampus applications, culminating in the development of a sophisticated learning platform tailored for enhanced educational experiences
- Collaborated with faculty members and numerous students, **offering guidance and assistance** in the development of augmented reality/virtual reality projects
- **Tech Stack:** WebGL, WebXR, **C#**, C++, **RealityKit**, **Unity**, AR.js, **Three.js**, WebAR, Unreal, Xcode

Software Course Instructor – *CS Dept., San Jose State University, San Jose, CA*   Aug '23 - Aug '24
- Instructed CS 122 Advanced Programming and CS 151 Object Oriented Design at SJSU, designed course content

Software Development Engineer – *SaaS Labs Pvt. Ltd., Noida, Uttar Pradesh, India*   Jan '22 - Jun '22
- Collaborated with JustCall product team as an *Intern* to develop Agent Assist, a feature that listens to live calls and delivers real-time **AI driven suggestions** to agents, leading to a 20% reduction in average call handling time
- **Tech Stack: Node.js**, GCP, **WebSockets**, Python, React, **Redis**, **MongoDB**, PyTorch, Scripting

Full Stack Developer – *AtoZ Softtech LLC, Remote*   May '21 - Jul '21
- As an *Intern*, I spearheaded the comprehensive technical advancement of the product UnQue, implementing an adaptive queuing system to boost customer engagement and business value
- **Tech Stack: PHP**, jQuery, Twilio, Google Maps API, **AWS**, **RESTful** Web Services, BitBucket, MySQL

PROJECTS

Immersive Game: Roll-a-ball | *Swift, SwiftUI, ARKit, **RealityKit**, UIKit, Core Animation*   Nov '23 - Dec '23
Developed an augmented reality (AR) **iOS game** that engages users in an **immersive environment**, challenging them to skillfully roll a ball to knock down pins using **physics** (link)

AR-ML Fusion: Visualizing Machine Learning Concepts | *AR.js, AFrame, **Three.js**, AI*   Jul '23 - Nov '23
Designed a cross-platform **Web-based** AR Visualizer utilizing a Radial-kernel-trained Support Vector Machine (SVM) model to generate interactive **3D model** to understand **machine learning** concepts (link)

MathViz: 3D Function Visualization Tool | *JavaScript, Three.js, 3D Math, **3D Rendering***   Sep '23 - Oct '23
Leveraged **3D rendering** techniques for visualizing functions of form of $z = f(x, y)$ in a 3D environment (link)

S.E.A.R: Smart Education with Augmented Reality | *C#, **Unity**, AR Foundations*   Aug '20 - Dec '20
Developed **Android & iOS** apps for Design Project showing 3D models for Education with AR, enabling user interaction through motion detection and touch controls to elevate experience and mitigate learning hurdles (link)

Who wants to be a Millionaire (WWTBAM) Game | *C-programming*   Sep '19 - Nov '19
Runs in terminal, maintains user logs, uses text files to store data, similar to game show WWTBAM (link)

ONLINE COURSES (COURSERA)

- Introduction to Augmented Reality and ARCore by Daydream (link)   Jan '21
- Handheld AR App Development by Unity (link)   Dec '20

Skull
Mandible

Calvicle
Scapula
Humerus
Thorax
Sternum
Ulna
Radius
Spine
Pelvis
Sacrum
Carpus
Metacarpus
Phalanges
Femur

ELECTRIC MOTOR

An electric motor is an electrical machine that converts electrical energy into mechanical energy.

Principle: A current carrying conductor is placed perpendicular to the magnetic field so that it experiences a force.

Rotor Hold
Current
Coil
Cylinder
Current Holder
Magnet
Box
Rotor Part