M Karuna Shree (she/her)

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Education

VIT Bhopal University   Bhopal, Madhya Pradesh
Bachelor of Technology   October 2022 - Expected 2026
Computer Science and Engineering with specialization in E-Commerce
Cumulative GPA: 9.12/10

Technical Skills

Languages & Frameworks: Java, Python, JavaScript, HTML5, CSS3, Three.js, D3.js, AR.js, React
Databases: MySQL
Specializations: Augmented Reality Development, 3D Visualization, Real-time Data Processing

Experience

PlyPicker, Pune   September 2024 - November 2024
Augmented Reality Research Intern
- Researched and prototyped advanced AR interaction methods, implementing gesture-based object manipulation and surface detection algorithms that improved spatial computing accuracy by 35%.
- Engineered interactive AR furniture placement systems with precision hit-testing functionality, enabling users to visualize and position 3D models in real-world environments with 98% placement accuracy.
- Resolved complex 3D transformation challenges by implementing matrix calculations for accurate object positioning and rotation within augmented reality environments.

Projects

FurniVision: Web-based Augmented Reality project
- Architected a comprehensive WebAR-powered e-commerce platform that revolutionized online furniture shopping through immersive 3D product visualization; Integrated AR.js framework with modern web technologies, enabling seamless furniture visualization in real-world spaces through standard browsers without app downloads.
- Developed responsive interfaces using HTML5, CSS3, and JavaScript with cross-platform compatibility across 15+ device types; Optimized WebGL rendering performance to maintain 60fps on mobile devices while processing complex 3D models.

Technology stack: HTML5, CSS3, JavaScript, Three.js, AR.js, WebGL

PrepWise: AI Powered Mock Interview website
- Developed an interactive platform specifically designed to assist users in preparing for AI-driven interview scenarios, engineering a robust and streamlined user authentication system for securely accessing personalized mock interview sessions and tracking progress.
- Implemented a modern and efficient web stack, carefully selected to deliver a high-performance and scalable application, utilizing Next.js (React) for a responsive and dynamic user interface, integrating Clerk for secure authentication and authorization flows, and configuring the codebase with TypeScript for enhanced type safety and maintainability.

Technology stack: Next.js (React), Clerk (Authentication), TypeScript, Tailwind CSS

Extracurricular

E-Commerce Club, VIT Bhopal   January 2023 - June 2025
President
- Led a dynamic student organization of 250+ active members focused on digital commerce education and industry awareness; aligned cross-functional teams of 20+ members across marketing, content, events, and partnerships divisions.

Insights Club, VIT Bhopal   December 2022 - June 2025
Editor-in-chief
- Published 14 monthly newsletters and a comprehensive yearly magazine, reaching an audience of 5,000+ students, faculty, and industry professionals; managed diverse teams with 60+ writers, designers, and contributors.

Additional

Languages: Hindi, English, and Tamil.
Certifications: Introduction to Web AR development with webXR, mindAR, three.js and tensorflow.js, MERN Full Stack by Ethnus.