

Archit Vishnoi

Computer Graphics Engineer

Vizara Technologies Pvt. Ltd.

NASSCOM CoE-IoT, Gurgaon, Haryana - 122016, India

Phone: +91 – 8826292109

Email: archit969@gmail.com

Address: Mokdong - 104, Omaxe Heights,
Sector-86, Faridabad, Haryana - 121002, India

Education

2018	Jaypee Institute of Information Technology, Noida Bachelor of Technology, Computer Science Engineering - A+ in Data Structures, A in Computer Architecture, and Minor-I & II	7.2/10 CGPA
2014	DAV Centenary Public School, Haldwani (12th-Senior Secondary Examination) Central Board of Secondary Education - 96 in Maths, 95 in English and 94 in Physics and 93 in Computer Science	93.8%
2012	DAV Centenary Public School, Haldwani (10th- Secondary Examination) Central Board of Secondary Education	10/10 CGPA

Work Experience & Internships

May 2019 - Present	Computer Graphics Engineer (Vizara Technologies Pvt. Ltd, Gurgaon) <ul style="list-style-type: none">Collaborated on all stages of the product development cycle, from requirement gathering to releases of apps like Digital Gandhi Akar Prakar, which are available on Google Play Store.Fixed memory leak due to unreferenced co-routines in Museum AR app, using Unity Profiler.Coordinated with 3-D artists to evaluate and optimize the computational and graphical performance of GPU Intensive applications.Performed software testing and troubleshoot runtime issues before the ChariotVR and VizARt 3D app launch, based on the virtualization of Indian Heritage.Worked on Unity 3D with C# scripting, Visual Studio, .NET framework, Room-scale tracking with SteamVR, Image/Model Recognition AR apps using Vuforia, and Google ARCore.Represented the company in India International Science Festival 2018, Unity Developer Conference 2019, and National Workshop on Intelligent Multimodal Interfaces 2019.
Aug 2018 - Apr 2019	Junior Research Fellow (Indian Institute of Technology, Delhi) <ul style="list-style-type: none">Worked as a Unity 3D Developer on the project, 'Digital Mini Spectacle' where the goal was to create digital installations using 3-D laser scan data, AR, Holographic Projections, and 3D Fabrication to provide interactive and immersive experiences showcasing the glory of UNESCO World Heritage Sites in Hampi, Karnataka, India.Primary duty was to research and explore ways to visualize 3-D modeled data in Unity with special attention to optimization and immersiveness using VR, AR, and MR solutions.Co-developed OpenCV based laser navigation system for a virtual walkthrough.
June 2017 - July 2017	Unity Game Developer Intern (Absentia Virtual Reality Pvt. Ltd, Bangalore) <ul style="list-style-type: none">Worked as a Unity Game Developer on the project named 'Norah AI,' an automated game engine that uses machine learning techniques to automate the game development process.Developed various plugins and tools based on C#, which uses I/O functionalities of Unity.Worked on MoCap animations and skeletal rigging.

Academic Projects

Aug 2017- May 2018	Comparing and Implementing Neuroevolutionary algorithms in Unity3D game engine <ul style="list-style-type: none">The project's primary motive is to implement each Neuroevolutionary algorithm and compare them in terms of efficiency of results, speed, and accuracy.A scenario is taken in which arrows must reach the destination circle by calculating the distance between them and adapt their neural network accordingly. Fitness is calculated in terms of the minimum distance achieved between the arrows and circle.
--------------------	-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------

Jan 2017 - May 2017	Seize Task Force - RTS Shooter Game (B. Tech Project, 6th Semester) <ul style="list-style-type: none"> It is an RTS First Person Shooter android game in which the user is a part of STF, a first response team against terrorist attacks in the city. This game boasts high-quality graphics with interactive sounds and user-friendly controls. It's implemented in Unity 3D software using C# scripting and Visual Studio debugging. The primary duty was to implement A* algorithm for pathfinding, creating LAN multiplayer using the UNET plugin, and deploying the VR version using GoogleVR SDK and Bluetooth controllers.
Aug 2016 - Dec 2016	Big Bang Simulation (B. Tech Project, 7th Semester) <ul style="list-style-type: none"> The project is a simulation of "The Big Bang" and its aftereffects, involving a rapid expansion of the universe and segregation of heavenly bodies. The last stage displays a solar system-like formation with planets orbiting around a star. It is implemented in C++ using the OpenGL and GLUT library. Matrix multiplication is used to scale, rotate, and revolve objects for the required visual effect with different equations for each planet depending upon its spin frequency.
Aug 2015 - Aug 2016	Delegate (Jaypee Model United Nations) United Nations Commission on the Status of Women (UNCSW) <ul style="list-style-type: none"> Representation from Spain, discussing women's social and educational rights, identifying challenges, and formulating concrete policies to promote gender equality and advancement of women worldwide.
Skills	
Languages	<ul style="list-style-type: none"> C# C/C++ OpenGL JavaScript Python
Technical Skills	<ul style="list-style-type: none"> Unity 3D/ Unreal Application Development Game Mechanics/Logic Performance Optimization Windows/ Android/ iOS Platforms Data Structures/ 3D Mathematics SteamVR, Vuforia, ARCore App Development, Visual Studio
Certifications	
May 2018	<ul style="list-style-type: none"> Unreal Engine C++ Development – Epic Games (Udemy)
April 2020	<ul style="list-style-type: none"> Specialization in Game Design and Development – Michigan State University (Coursera)
Extra-curricular Activities	
Aug 2016- May 2018	Head Coordinator - Graphics and Animation Hub, IIIT Noida <ul style="list-style-type: none"> Organized a 2-day Game Development Hackathon in Cybersrishti 2017 (College Tech Fest). Organized a weeklong Unity Game Development Workshop in college, explaining the technicalities of Unity 3D software and C# scripting. Organized a FIFA and Counter-Strike Competition in College Fest 2017. Organized a Workshop on Photoshop in college in 2018.
Aug 2015- Aug 2016	Volunteering <ul style="list-style-type: none"> Member of Organizing Committee - International Conference for Contemporary Computing 2015. Member of Organizing Committee - International Conference for Peaceful and Prosperous South Asia 2016.