NEERAJ SINGH THAKURGame Programmer

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I am IIT Kanpur graduate, experienced in leveraging agile frameworks to provide a robust code for high level development having confident command over Unity3D, C#, C++. Skilled in AI, UI, 3Cs, Optimization, Render Pipelines, VR/AR. I am creative, self-motivated, critical thinker, excellent communicator and very passionate about games.

Work Experience

Centre for Content Creation, Game Programmer,

(Jan18 - Present)

- Using IP characters to build game aiming to teach biology for **iOS** platform using **Unity3D** and **C#** (**VS code** IDE)
- In-charge of builds and debugging of Android platform. Using Git version control on Source Tree and Fork
- Built in-game alert, **gyro** camera mini-game, special skills, weapons auto-toggle, status and hit VFX system
- Adept in AI, 3Cs, Animations, UI, Shader Graph, Debugging, Optimization and Scriptable Render Pipeline

Build Corner, Unity Programmer, Freelancer,

(Nov 17 - Jan 18)

• Smart Display : Wrote Surface Shaders from scratch in Cg/HLSL for VR Oculus Go with runtime editable patterns and configured for most optimized Unity3D settings. System installed in over 10 major cities of India

Mech Mocha Game Std. Pvt. Lim., Game Programmer Intern,

(May 16 - July 16)

• Multiplayer unitypackage : Built communication library layer using C# and Java. Used Bluetooth API & Nearby Connections and Messages API for offline and online communication for Unity3D and Android Studio

Indie Game Developer and Gameplay Programmer

(May14 - Present)

- Shiro Dash 🗗: Client Development | Game Design | Design Document | Unity 3D, C# | Ads | Analytics | Shipped
- Retro Snake3D : Procedural generated levels | Android | Level Design | Game Balancing | Shipped
- Chemical Carriageway 🗗: Infinite runner | Android | Unity 3D, C# | Performance, Size Optimization | Shipped
- Mixed Reality Encyclopedia : VR/AR edutainment android application for Google Cardboard built in 24-hours of Microsoft Code.fun.do hackathon at IIT Kanpur

(Visit my portfolio for more projects and information)

Publications

Reactive Display for Virtual Reality : Designed and built **3D interface** to browse through 360° contents in Virtual Reality and instigate feeling of discovery while exploring contents using **Homography** (Computer Vision) and dynamic field of view of cameras. Tackled the problem of nausea caused by existing interfaces by providing an intermediate interface. Paper published at **ISMAR** (IEEE Symposium on Mixed and Augmented Reality)

Technical Skills

C# (3+ years); Cg/HLSL, C++, Java, Js, C (2+ years); MATLAB, Python, HTML

Game Engines and IDEs

Unity3D, Android Studio, Visual Studio Code, MonoDevelop, Sublime Text

Google VR, Nearby Connections & Messages, Vuforia AR, OpenGL, Bluetooth

Git (Source tree, Fork and Terminal)

Software DevelopmentProcesses & Methodologies
Domain-driven, Test-driven and Agile development, Continuous Integration & Delivery, Prototyping, SOLID, Scrum, Dynamic Systems Development Method

Education

Indian Institute of Technology (IIT) Kanpur, Bachelor of Technology,

(Jul 13 – Jul 17)

Major: Materials Science and Engineering, CPI: 8.0/10.0

• Data Structure & Algorithms, Computer Science, Graphics, Fundamentals of Computation, Analytic Geometry Physics, Calculus, Trigonometry, Algebra, Design Patterns, Software Architecture, Object Oriented Programming