Dhiraj Magdum

Aspire to build a career in game development.

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Portfolio
GitHub
LinkedIn
ArtStation

Skills:

Programming Languages : C++, C# (Intermediate).
 Game Engines : Unreal Engine, Unity.

• Version Control : Git

Programming Design Patterns : MVC, Singleton, Observer, State.

• Software's : 3ds-Max, Z-brush, Substance designer, Spark-Ar.

Projects:

- **Delta Unit** (Unity Engine) : (GitHub Link) (Video)
 - Implementation of MVC design pattern for player tank, enemy tank and bullets.
 - Implementation of generic singleton class and generic object pool. Use of scriptable objects for creating different types of tanks. Use of observer design pattern for implementing achievement system.
 - Implementation of state design pattern for different states of enemy tank. AI for enemy tank.
 - Shooting mechanism for both player and enemy tank.
- Pacman (C++ & SFML) : (<u>GitHub Link</u>) (<u>Video</u>)
 - Use of SFML library for graphics and animation. 2D grid system for player and ghost movement.
 - Clock system for animation and to make game framerate independent. Implementation of collision system.
 - AI controlled ghosts with three different states. Randomized difficulty curve as per level.
 - Implementation of power-up's. Level win and lose conditions.
- **Castle Guard** (Unreal Engine) : (Video)
 - Character movements and melee combat system. Menu system to save and load the game.
 - AI for enemy chasing and attack. Player and enemy animations. Weapon equipping mechanics.
 - Player stats, sound effects, particle systems, pickups, HUD elements and gameplay mechanics.
- Mars Marine (Unreal Engine Blueprints) : (Video)
 - Top down wave based shooter game. Unreal motion graphics tools to create player HUD.
 - Character movement, animation blueprints, animation montages, state machine and blendspaces.
 - AI navigation for enemy. Player shooting, health and death for player and enemy.
 - Wave spawning mechanism. Sound and particle effects. Pickups.
- **Cinematic Creator** (Unreal Engine) : (<u>Video</u>)
 - Lighting, camera types, sequences, sequencer triggering, camera movement, cutscenes, rendering and sound addition.
- Game Props : (ArtStation)
 - Optimization of props by creating LOD's and modular structure. Texture optimization.
 - 3D modelling (3ds-Max), sculpting (Z-brush), UV unwrapping (3ds-Max).
 - Texture creation (Substance designer / Painter and Photoshop), rendering (Marmoset Toolbag).

Education:

Full Stack Game Development - Outscal, Delhi.

(Jul 2021 - Present)

• Diploma In Game Art - Frameboxx, Mumbai.

(Sep 2020 - Aug 2021)

B.Tech Mechanical - Walchand College Of Engineeing, Sangli. (CGPA - 7.22)

(Aug 2016 - Sep 2020)

• HSC - State Board - A.N.N.Jr. College, Jaysingpur. (89.08 %)

(June 2014 - July 2016)

Certification:

- Unreal Engine C++ Developer. (Link)
- Unreal Engine Blueprint Developer. (Link)
- Cinematic Creation For Game Design. (Link)