

Dhiraj Magdum

Aspire to build a career in game development.

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[LinkedIn](#)

[GitHub](#)

[ArtStation](#)

[Portfolio](#)

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 pattern for implementing achievement system.
 - Implementation of state design pattern for different states of enemy tank.
- **Pacman** (C++ & SFML) : ([GitHub Link](#)) ([Video](#))
 - 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](#))
 - Unreal engine reflection system and garbage collection. Menu system to save and load the game.
 - Character movements and melee combat system. Player and enemy animations.
 - AI for enemy chasing and attack, weapon equipping, player stats like health, stamina and collectables.
 - 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 to create player HUD.
 - Character movement, animation blueprints, animation montages, state machine and blendspaces.
 - AI navigation for enemy. Player shooting, health / death for player and enemy.
 - AI wave spawning. Sound and particle effects. Pickups.
- **Cinematic Creator** (Unreal Engine) : ([Video](#))
 - 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,
 - 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 Engineering, 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](#))