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| **Shantanu Mane Logo - BW NoName** | **SHANTANU SHRIPAD MANE - GAMEPLAY PROGRAMMER**  **Phone No.:** +1-385-202-9752 | **Email:** [shantanu.m934@gmail.com](mailto:shantanu.m934@gmail.com)  **Portfolio:** [shantanumane.com](https://shantanumane.com/) | [linkedin.com/in/shantanusmane](https://www.linkedin.com/in/shantanusmane/) |

**EDUCATION**

**University of Utah** -*Expected Graduation - May 2019*

Pursuing a Masters in Entertainment Arts & Engineering - Game Engineering Track

**K.J. Somaiya College of Engineering, Mumbai, India** *- June 2015*

Secured a Bachelor of Engineering in Computer Engineering with *First Class Honors*

**SKILLS**

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| **Programming Languages -** C++, C#, Blueprints  **Game Engines -** Unreal Engine 4, Unity  **IDEs -** Visual Studio 2015, Visual Studio 2017 | **Version Control** - Perforce, Git  **Animation -** Maya, Flash  **Software Documentation -** Dia |

**GAME PROJECTS**

**Action Game Project** - *Gameplay Programmer - UE4, C++, Blueprints*

* Creating a combat system similar to that of Bayonetta, focusing on player input and combat mechanics.
* Implemented a system for chain attacks/combos based on input timing and a tree structure to hold attack information.
* Working on improving responsiveness to input for attacks and an effective system for hit information of attacks.

**Project Jericho** - *Gameplay Programmer - UE4, C++, Blueprints*

* An action-adventure game with your ‘Ribbon’ and its traversal techniques as tools to conquer giant mechanical monsters.
* Implementing the player character’s ‘Ribbon’ technique and the abilities and mechanics tied to it like catching projectiles, move-speed burst and mid-air hover for action-style gameplay.
* Contributing to player-side design to create a unique character and resonating empowering abilities that make the player feel elegant and fierce.

**MaVRick** - *Gameplay Programmer - UE4, Blueprints*

Published April 2018 on [Play Store](https://play.google.com/store/apps/details?id=com.WildWestWorkshop.MaVRickMobileArena) and [itch.io](https://teameetings.itch.io/mavrick)

* An action game where you pinball and charge at enemies with your fists to send them flying out with an explosion.
* Implemented a spawn system allowing to create desired intensity in the game by tuning the difficulty of each set of spawned waves and the threshold to spawn every new wave.
* Worked single-handedly on the ‘Fighter’ enemy AI that blocks attacks from the front, needs to be stunned from behind before being able to take damage and can do a short-range charge at the player.
* Setup complete animation state machines for the ‘Fighter’ and ‘Shotgunner’ enemies.
* Designed player abilities and enemies to create intense and high-octane gameplay.

**Warlocks** - *Gameplay Programmer - Unity, C#*

* A recreation of a MOBA-esque King-of-the-Hill PvP where you cast spells to fight and defeat other players.
* Worked on MOBA-style controls, unit selection and movement to be used with a mouse and keyboard.
* Implementing a well-rounded spell system with ability-specific interactions, cast times and cooldowns and a robust damage system to tie into it.

**Combat System Paper Prototype** - *Game Designer*

* Designing a paper prototype using cards and a tiled map to simulate the mechanics involved in Action Game combat.
* Emulated critical timings and reactions by associating execution times with actions like the attacks, blocking and evading.
* Working on including mechanics to affect enemies in ways such as pushing, staggering, launching etc. in order to play out combat strategy.

**OTHER PROJECTS**

**Memory Manager** -*System Programmer - C++*

* Created a memory manager in C++ that passes a robust unit test.
* Created a Dynamic Size Heap Allocator to allocate memory of requested size from the heap.
* Implemented Fixed Size Allocators for certain allocation sizes that use arrays of bits to track their memory blocks.

**Stick-Man Fight** *- Animator - Flash*

Published on [YouTube](https://youtu.be/MIk4PAED2iI)

* Created a frame-by-frame animation in Flash depicting a fight sequence between stick figures.
* Animated characters focusing on technicalities of the moves they execute.
* Animated specific actions with special effects like trailing effects for kicks, screen shudder, blood spurt etc.

**ACTIVITIES & ACCOMPLISHMENTS**

* DotA player since May 2008 with a thorough understanding of the game’s systems and mechanics.
* Dota 2 player since the Closed Beta with currently 1600 hours played.
* Achieved 2nd place at a college LAN event for DotA in 2013.
* Event head for the Dota 2 LAN at K.J. Somaiya’s ‘Abhiyantriki 2013’ where I led a team to setup for the event, handle logistics and setup matches.
* Managed the Need for Speed: Most Wanted LAN at K.J. Somaiya’s ‘Abhiyantriki 2012’ where I was responsible for setting up races and handling logistics.
* Member of the ‘Computer Society of India’ student chapter for the academic years 2012-2013 and 2013-2014 where I worked in the preparations for college festivals.