Contact

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Github https://github.com/amanm007

Portfolio https://amansinghdev.com

ArtStation https://www.artstation.com/sssn1pee

Education

2019-2024

Bachelors of Arts, Double Minor(Computing Science, SIAT) Simon Fraser University, Canada

Technical Skills

- **PROGRAMMING LANGUAGES:** C, C++,C#, Java, Python, SQL, Kotlin
- SOFTWARE:

Unity3D, Maya, GIT, Adobe Apps, Figma, Microsoft Visual Studio, Eclipse

Key Skills

- Coding
- Game Development
- Character Modelling/ Texturing
- Game Designing
- UX/UI Design
- Database Management
- Data Structures & Algorithms
- Creative Writing & Oration

Languages

- English
- Hindi
- Punjabi

Aman Singh

Software & Gameplay Programmer

Technical Project Experience

O September 2023-January 2024

- Slow & Steady- Rogue-like 2D Shooter Game (Group Project)
- Designed and implemented core **player mechanics**, including **movement**, **shooting**, and a **unique slow-down mechanic**, using Unity's Rigidbody2D and animation state machines.
- Developed AI-powered enemies with A* Pathfinding, featuring patrol, chase, and dynamic behavior switching based on player interaction.
- Created **multiple enemy types** with unique behaviors (e.g., **melee**, **ranged**) and **integrated** a **health system with damage feedback and death animations**.
- Optimized **game performance** by improving **collision detection** and reducing unnecessary computations.

O September 2023-January 2024

The Storage- Horror 2D Game (Group Project)

- Lead Game Mechanics Programmer and Sound Designer using **Unity** and C#.
- Developed player mechanics, including movement, animations, and health system, using Unity's **Rigidbody2D** for a responsive gameplay experience.
- Implemented an AI-powered enemy character using **A*** **Pathfinding**, featuring patrol, chase, and dynamic behavior switching based on player interaction.
- Integrated sound design elements such as footsteps, ambient music, and characterspecific sound effects to enhance game immersion.
- Created a real-time health bar **UI** to visually represent player health status and damage feedback.

September 2023(In Progress)

ParadoxRift- Immersive VR Experience (Group Project)

- Configured **XR Rig** for immersive player movement and navigation within the VR environment, enabling both **teleportation and direct locomotion**.
- Implemented intuitive VR input systems to handle complex player actions, including object manipulation and environment interaction.
- Developed a responsive **character controlle**r, integrating collision detection and physicsbased movement for a realistic VR experience.
- Scripted a **grabbable object system**, allowing players to interact with items in the game naturally, enhancing the immersive experience.
- Crafted a teleportation system with **custom triggers and anchor**s, enabling seamless navigation through virtual spaces.

O July 2023

Advance Fps Movement (Personal Project)

- Currently developing an Advanced Movement FPS game inspired by Black Ops 3, incorporating innovative gameplay mechanics and movement systems like Jetpacking, Wallrunning.
- Implementing realistic and responsive first-person shooting mechanics, including **weapon** handling, recoil, and aiming systems.

OMay 2023

FPS Game (Personal Project)

- Built an FPS Game on Unity3D and developing a real world using integrated assets.
- Implemented various game mechanics and features, including **player movement**, **shooting mechanics**(**RayCast**), **enemy mechanics**.

OMARCH 2023

- A Toaster's Tale (Academic Team Project)
- Rigged and animated characters in the project using Maya.
 - Modelled and rigged the hand and the toaster along with the environment lighting.
- Project Website: https://iat343.framer.website/

Work Experience

July 2023 - Present

O Telus, Vancouver, BC Part-Time Sales Representative

• Consistently achieve and surpass personal sales targets through effective customer engagement and product knowledge.