Akshay Patel

Game Programmer

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Profile

Game developer with 2 years of experience in game development having enhanced knowledge of various programming languages like C#, C++, and Java with extensive expertise in Unity engine. Proficient in various platforms, Languages, Algorithms, Architecture, and making tools for game engines. I have experienced in creating *Local Multiplayer*, *Hyper Casual*, *Action*, *Racing and Arcade games*.

Experience

Game UI Designer

Awakeen Studio, Ahmedabad / Dec 2018 - November 2019

- · Work closely with the design and technology teams to conceptualize and prototype interface. functionality, look, and feel
- · Created prototype to solidify design direction and plans.
- · Designed and created UI components (ex. Menus,in-game HUD elements, etc.)
- · 2 titles from per-production to ship, as a member of a development team.

Skills

- · Programming Languages: C#, C++, Java, HTML, CSS, SQL
- · Design Patterns: Factory Pattern, Observer, Singleton, Object Pool, Top-Down Architecture
- · Collection: Dictionary, List, LinkedList, Stacks, Queues, Enums
- · **Serialization**: XML, Json, Binary, Text
- External Libraries/Software: Unreal Engine, Eclipse, DaVinci Studio, Photoshop, OpenGL, Git, GitHub for Windows, IntelliJ, Visual Studio, Word, PowerPoint, Excel.
- · AI Algorithms: State Machines, A-Star, Flocking AI, Genetic AI, GOAP, Binary Tree
- Management/Debugging : Agile Scrum, Jira, Trello
- · Database: MSSQL Server Workbench, SQL Server
- Unity: Editor Scripting, Editor Variables/Menus, UI, Physics, Animations, Sound, Particle Systems,
 Controller Support, Nav Mesh, Image/Tile Filling, Materials and Lighting, Shader Development, Rewired,
 Unity Input System, Local Multiplayer Support, Unity ECS-DOTS, Lambert Lighting, PBR (Physically-Based Rendering), Pro Builder.
- **IDE and Other tools :** Visual Studio, VS Code, Eclipse, Unity Engine, IntelliJ Idea, PyCharm, Microsoft office, Excel, Davinci Studio, Photoshop.

Game Projects

Arrow Maniac | PC

- · Arrow Maniac is a 2D Platformer, local multiplayer game where players fight each other using various arrow and abilities in a fast-paced environment.
- · In this game I created **All Maps**, **Abilities** and **Game UI** using Shaders, Unity particle system, Tile map, Time Manager, 2D Animation etc.
- · Source Code

Space Bomber | PC

- · Space Bomber is a Top-down 3D wave survival game.
- In this game I created All particle effects, Levels, Ammo System, Wave system, UI, and 3 types of Bombs.
- · Source Code

Super Quick Saving | PC

- · Real-time data saving and loading using **JSON**, **Binary** and **XML data serialization** techniques.
- · Source Code

Flocking AI | PC

- · A 3d unity AI project to demonstrate flocking AI behavior in fishes.
- To achieve realistic looking flock behavior I created a **Predator and Pray relationship** between all types of fishes.
- · Big Fishes(**Predator**) will try to hunt down small fishes(**Pray**) and small fishes will try to avoid them while staying as a group and searching for fish food.
- · Source Code

Unity Editor Tools | PC

- The **Color Editor tool** that help to color the texture and then later on that texture can be applied on different 3D objects.
- · I also created one **Object control tool** using which you can add, remove, duplicate and change position of the objects in array directly from unity inspector.
- · Source Code

Goop Soup | PC

- · Goop Soup is a 2D, top down, survival game.
- · In this game you can create different color of spells using different color of plants.
- · To kill the enemies you have to hit them with same color of spell.
- · I have created this game with strong **singleton architecture** and it's extremely easy to **add new** type of enemy or any other features in the game.
- Source Code

Education

Video Game Programming | Jan 2020 – Present ISI, L'institut Supérieur d'Informatique, Montreal, QC

Bachelors in Information Technology | Aug 2015 – Jun 2019 Gujarat Technological University, Gujarat, India

Languages

French - Beginner

English - Proficient

Hindi - Native

Gujarati - Native