Peyton James Jones

✉ peytonjamesjones@gmail.com | ▯ 760-417-9261
○ https://github.com/MrJones16 | ▯ https://www.linkedin.com/in/peyton-j-jones/

Objective

Passionate game developer with expertise in C++ seeking a game development or software engineer position where I can contribute to engaging games or technically sophisticated software

Skills

Languages: C/C++, C#, HLSL, Python, JavaScript, HTML

Technologies & Tools: Visual Studio, Git, Unity, Godot, Unreal, OpenGL, Docker, Aseprite, Blender, ImGui, ASIO, Box2D

Work Experience

UCSC, Santa Cruz   Jan 2023 - March 2023

Reader/Tutor for Computational Media

- Provided detailed critiques and feedback on students' work related to game systems and interactions.
- Collaborated with faculty to ensure accurate grading and constructive support for student development.

Education

University of California Santa Cruz   Sep 2019 - Jun 2023

B.S. in Computer Science: Game Design   *GPA: 3.74*

Relevant Coursework: Object Oriented Programming, Linear Algebra, Data Structures and Algorithms, Computer Architechture, Game Design, Game Engine Graphics, Discrete Math

Project Work

Pyxis (Present): A multiplayer falling sand simulation built from the ground up in C++

- Developed a multiplayer falling sand simulation engine in C++, tailored from online tutorials.
- Implemented networking using ASIO's TCP & UDP with templated messaging, enabling multiplayer functionality.
- Integrated Box2D Physics engine with custom pixelated rigidbodies, pixel-preserving rotation, and runtime deformation.
- Designed a data-driven approach using XML for custom elemental properties and reactions.
- C++, OpenGL, GLFW, GLAD, ImGui, ASIO, tinyXML2, Box2D, Poly2Tri, SPDlog, XML

Escape From Project E.L.E.V.A.T.E. (2023): I was the lead developer for 2D Grappling platformer in Godot

- Led development of a 2D grappling platformer in Godot, focusing on character control and grappling mechanics.
- Collaborated on asset integration and level design using team-generated content.
- Godot, GDScript, Game Design, Game Mechanics, Aseprite, Asset Implementation

Music Is The Way (2023): Worked with a small team to develop a procedural platformer in Unity with generative audio

- Developed a procedural platformer in Unity with generative audio, creating an interactive audio experience
- Implemented data transfer between Unity and Pure Data for dynamic audio sequencing.
- Unity, C#, Pure Data