Portfolio: https://aiden.fyi/

Better Quality: Web Version

Skills



Experience

University Projects

Summit - Lead Programmer

Visual Studio 🔘 VSC 🔘 FileZilla 🔘 MySQL 🕗 Audacity 🕗 OBS 🔘

_____ IDE & Misc _____

July 2022 - November 2022 MQU

- $Student\ project\ with\ 5\ team\ members,\ 3\ programmers.\ 3D\ third\ person\ rogue-like\ made\ in\ Unity.\ 410+\ personal\ hours\ dedicated.$ - Implemented modularized scene management with asynchoronous loading. - Re-engineered existing codebase focusing on efficiency, modularity, and simplicity. - Acted as senior developer to manage & aid development processes across the board
- (including design and art). - Designed and implemented all backend systems related to gameplay and structure.
- Designed and implemented custom Boss State Machine.
- Modularized boss states for designer friendly implementation.
- Implemented modular animation event listeners to control states
- Designed and assisted implementation of power-ups.
- Designed and implemented a custom interaction system utilizing listeners for
- Developed announcement and dialogue systems.
- Custom camera handler for panning, effects, and 3rd person perspective.
- Managed custom lighting and skybox handling.

CQU Statistics Project - Lead Programmer

Feburary 2022 - June 2022 MQU



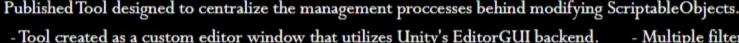
- Student project with 5 team members, 1 programmers. Gamification visual novel made in Unity.
- Apart of the PACE Internship program at Macquarie University, dedicated client was Completely automated visual novel setup without additional programming. Central Queensland University.
- Designed, implemented, and mantained systems in accordance to requirements
- Client task: Create a gamified quiz to track student's knowledge of statisitics. - Custom Dynamic Dialogue System with dialogue.
- Full intergration with Google Sheets API v4. Records and collects player completion data using google database.
- Dialogue options used to create diverging pathways for player progress based on their performance.
- Custom commands and modifiers used to enhance dialogue with effects, sprite changes, and more.
- Framework creates game content based on .json level files.
- Full intergration with Json.NET framework using custom class & interface based

Personal Projects

SOE

ScriptableObject Editor

July 2022 - December 2022



- Tool created as a custom editor window that utilizes Unity's EditorGUI backend.
- Makes use of AppDomain and System. Type 'generics' to get and modify assemblies. Designed to simplify and centralize the creation and modification processes behind Scriptable Objects.
- Utilizes a serialized window to display and give modification access to a selected ScriptableObject's fields and properties.
- Allows for the deletion and renaming of the selected object within the serialized
- within the project.

Multiple filters to mask displayed selectable Scriptable Objects.

- Folder filter to mask only objects contained within a specified directory. - Type type filter to mask class derived objects.
- Custom creation window for creating new ScriptableObjects as well as new class
- types of ScriptableObjects.

- Assembly filter for masking the displayed objects to a specific assembly associated

-Tested and working for all versions of Unity past 2019 (Excluding versions Scrollview accompanied by a case-insensitive search sidebar to display all Scriptable recognised by Unity to cause issues).

July 2019 - Present Dark Light

2D metroidvania inspirated by Hollow Knight and the Soulsbourne Series. Paused development while at University.

- Custom player state machine.
- Custom velocity based movement for fast paced mobility and combat.
- Command based custom input system used to handle player movement. Allows for control over the player to be utilized in systems handling cutscenes and event triggers.
- Custom input system derived from Unity Events to allow for control configuration and keybinding storing.
- Modular interface based save system using Json.NET (Works with binary serialization).
- From scratch A* pathfinding for non-player entities.

Education

Macquarie University Bachelor of Game Design & Development 2020 - 2022 Sydney, Australia Diploma of Interactive & Digital Games Northern Sydney Institute TAFE 2019 Sydney, Australia High School Certificate (HSC) Sydney, Australia 2008 - 2018