Isaiah Swinton

Gameplay Programmer

Contact

443-589-4495

I.swinton2020@gmail.com
Linkedin
Portfolio

Education

DigiPen Institute of Technology Redmond, WA BS in Computer Science and Game Design August 2020 - April 2024

Key Skills

Programming

Game Al Gameplay Tools Rapid Prototyping Algorithm Analysis

Multithreading
Data Structures
Debugging
Design
Encounters
UI/UX

Management Agile Waterfall

Sprint Management

Languages

Fluent C++ Fluent C# Java

Tools

Unreal Engine 5 (C++)
UE5 (Blueprints)
Unity
Excel
Git Version Control

Summary

Diligent programmer with a passion for developing tools and systems to support fellow developers. Looking to create more creative and interesting experiences through collaboration and innovation.

Experience

November 2024 – Present

Technical Designer • Frogged By Fire – C# & C++

- Implemented custom engine tools to facilitate in creating robust enemy and ally behaviors for the design team to modify and adjust.
- Worked closely with designers to create robust movement and camera systems to fit their specifications.
- Prototyped core mechanics to quickly test and demonstrate ideas of the team ideas to help with early project planning.
- Planned and implemented a complex cooperative AI to create a collaborative experience with AI teammates.

Projects

August 2023 - April 2024

Encounter Designer & Tools Programmer • One In A Krillion – C#

- Built a behavior tree and a behavior tree editor for controlling enemy behaviors for gameplay and cinematics.
- Developed an enemy targeting system to manage the engagement of an encounter in real-time.
- Prototyped and implemented certain abilities to facilitate designers in evaluating clarity of mechanics.
- Designed enemy encounters to establish growth and mastery within the players.

August 2021 - April 2022

Tools and Engine Programmer • Cooper's Cleanup – C++ and Lua

- Implemented editor system for designers to quickly add and iterate on level design.
- Implemented deserialization system to allow for quick reading and writing of files using RapidJSON.
- Built a messaging system using queues within a custom engine to decouple gameplay code and to incorporate into the scripting system.
- Utilized Lua to script gameplay events and systems within the project to allow for designers to implement scripting events in game