Joshua Shlemmer

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Technical Skills

Languages

C/C++ (proficent)
C# (proficent)
Python (familiar)
Javascript (familiar)

Software

Git/Mercurial/SVN Make/Premake Buildbot Unity Libraries

STL TinyXML OpenGL Unity Scripting API

Selected Student Projects

Al Programmer

8/2015 - 4/2016

Retrospect - Cooperative first-person shooter where players work together to take down a boss.

- <> Constructed a waypoint connector tool for Team Bear King's custom editor, speeding up level creation
- <> Designed a modular, data-driven steering behavior system for easy behavior generation in **Unity**

Al / Gameplay Programmer

1/2015 - 4/2015

Genetic Drift - a top-down 2D Fast-Paced couch play twin stick arena shooter where you engineer organisms for battle by choosing their abilities. Features AI opponents to fill missing player slots.

- <> Worked on a Goal-Oriented Action Planning (GOAP) implementation in **C++** for emergent AI behavior which led to flexible AI actors that could use new abilities with hardly any new code
- <> Fixed engagement problems in matches by Creating a system for making level events inside of our custom Entity-Component-System based engine.

Tech Director / Graphics Programmer

8/2014 - 12/2014

Astral Lune - a 2D platformer in which players utilize a special reflection mechanic to traverse the world.

- <> Completed an OpenGL graphics engine, and wrote all of the games shaders in GLSL
- <> Designed core engine in C++, utilizing a component-based design to make engine easy to expand
- <> Wrote a custom memory manager, allowing for quick creation of contiguous components in memory
- <> Setup a prebuild system using **Premake**, making it easier to use version control on the project

UI Programmer

12/2014

TCOBO Ninja for Ludum Dare 28 72-hour Game Jam - a multiplayer twin-stick shooter with ninjas.

- <> Implemented menus with data driven menu items for fast menu modification in **Python**
- <> Wrote multiplayer controller input logic with player controller assignment in menu

Work Experience

Zero Team Intern

3/2015 - Current

DigiPen Research and Development

- <> Used **Python** to Extend our **Buildbot** Continuous Integration System
- <> Constructed a tool in C++ for the Zero Engine using TinyXML to parse Doxygen's XML output and extract useful documentation from it to be used for both the Code Index documention and the editor

Lead Activities Coordinator

6/2014 - 8/2014 & 4/2015 - 8/2015

DigiPen ProjectFUN Summer Workshops

- <> Managed a team of 4 coordinators to lead all High School afternoon activities
- <> Part of core design team for a content-rich Tabletop RPG designed to help encourage engagement in classes and positive interactions between students

Education

DigiPen Instutute of Technology