Luyao Tian

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Engineering Skills

- Programming Language: C++, C#, C, Java, Python, Lua
- Game Engine and Framework: Unity, Unreal, MonoGame (XNA), Lumberyard, Phaser, Qt, Direct3D, OpenGL
- Version Control: Git, Subversion, Perforce

Work Experience

Something Dark Studios

Feb 2017 - Present

• A Walk in the Woods

Gameplay & UI Engineer

- Implemented character movement system
- Implemented animation sequences for main characters
- Implemented Day Night Cycle system with conditional check for Win/Lose state
- Implemented functionalities for UI elements
- Implemented bugfixes for various aspects

EAE Master Game Studio

Aug 2016 - Present

- Memory Management System (Part of a basic game engine)
 - Custom Block Allocator with 4 Byte Alignment, Guard Band, Fixed Sized Allocator and Bit Array written in C++
- Simple Graphics Assets Pipeline (based on template given by John-Paul Ownby)
 - Simple Graphics Assets Pipeline that contains Asset Build Pipeline utilizing Lua and assets management including shaders, effects, sprites and textures written in C++
- Illuminary

Gameplay & Audio Programmer

- Global Game Jam 2017 project with a team of 12. A two-player exploration mystery game where the players' only goal is to find each other amidst a vast underwater pantheon. Made in Unreal Engine 4.14.3 with Blueprints
- Implemented traveling sound system for projectiles over network so that players can only hear projectiles launched by others
- Outlaw Revolver: Gunfight Reloaded

AI & Gameplay Programmer

- An iteration of arcade Gun Fight made with a team of 6. Made in Phaser 2.5.0 with JavaScript and HTML5
- Implemented AI system for responsive actions and character movement system

Individual and Team Projects

XenoBand (Source Code: GitHub)

Production Cycle: 4 months

- A music processing & production software made with a team of 4. Made in Qt Creator 4.2.1 with C++
- Role: MIDI Editor and UI Programmer
- Work: Implemented MIDI displaying and editing system. Implemented UI functionalities

Reversilation

Individual, Production Cycle: 2 weeks

- A classic Reversi (Othello) game made in Unity 5.3.4 Personal Edition with C#
- Role: Designer, Gameplay and AI Programmer
- Game Code: Implemented Minimax algorithm (both with and without Alpha-Beta Pruning), game rules for Reversi, UI functionalities and background music

Programming Education

The University of Utah | Salt Lake City, UT

anticipated 2018

Master of Engineering

Entertainment Arts & Engineering

Iowa State University | Ames, IA

degree awarded May 2016

Bachelor of Science

Computer Science and Mathematics