Yuxian Deng

Gameplay/AI Programmer

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SKILLS

Programming Languages

C++

Software and Tools

UE4 Blueprints Visual Studio

Git Perforce

Maya

Photoshop

EXPERIENCE

WB Games | Avalanche

Salt Lake City, UT

Unannounced Project, UE4

Oct 2018 - Present

Engineer Intern

- Worked with designer and implemented a specific enemy AI
- Applied and blended character animation to different AI state to make it more realistic
- Helped maintain and debug AI system

Therapeutic Game and Apps Lab

Salt Lake City, UT

Surgery Checklist, Unity, published on IOS

May 2018 - Present

- Created and managed UI elements from a surgery checklist template
- Generated PDF file from the checklist which users fill
- Created customization tools for the administrator to make their own checklist template

PUBLISHED GAMES

And I Must Scream

Feb 2019

2.5D narrative puzzle

UE4, PC

Gameplay Engineer (AI)

- Communicated with designers about details of mechanics
- Built a tool for following a path which provided many types of routing for other engineers
- Implemented enemy AI system including routing, patrol and flocking

Meaty McSkinBones

Mar 2019 UE4, PC

Puzzle platformer

Gameplay Programmer

Worked with designers to build various mechanics

- Worked with artists to program character animations by state machine
- Implemented character movement and interactions for puzzles

PROJECTS

Al For Games

Software, C++

- Created character movement and steering behaviors, including seek, arrive, wander and path following
- Transferred 2D grey images to graphs, implemented pathfinding by A* and integrated them with character movement into an interactive system

Game Engine

A simple 3D game engine

- Built basic graphics, movement and math systems
- Made assets builder to convert human-readable files to binary file by Lua
- Built behavior tree system to control AI behavior

Kudzu: the Wild

2D serious game, Unity

Gameplay Programmer

- Implemented the function of avoiding obstacles in AI navigation system
- Implemented gameplay logic of animal spawning and animation system
- Programmed camera movement and control

EDUCATION

MEAE Masters, Game Engineering

May 2019

University of Utah

B.Eng, Digital Media Technology

Jun 2019

Zhejiang University