Zizhun Guo

zizhguo.github.io

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Objective

Full-time internship position as Software/Game Developer (CPT/OPT)

Education

08/2016 - present:	Rochester Institute of Technology(RIT)	Rochester, NY
	M.S. in Game Design and Development (May 2018)	U. S
09/2012 - 06/2016:	Chengdu University of Information Technology(CUIT)	Chengdu, SC
	B.E. in Electronic and Information Engineering	China

Skill

Language		Software/Version Control			Linguistic
C#	C/C++	Visual Studio	Unity3D	Git/SourceTree	English
Python	Java	Eclipse	Pycharm	SublimeText	Mandarin
Markdown		PremierePro	Matlab		

Project

Cat Kart (Graduate Design Capstone Project)

Responsible to exploit UNET HLAPI (High-level API) to implement game communication between two local computers (VR side / Non-VR side) with two separate game scenes. In charge of all multiplayer part development in this year-long project, including object-spawn system, object-communication and game lobby/GUI. This project is the multiplayer game mode branch of Catkart. (Team composition: Gameplay Developer/AI Developer/Level Designer/Multiplayer Developer/Model Artist/ GUI Artist/Sound Designers)

BladeBeats (Audio processing)

Responsible to exploit .NET audio API NAudio to capture PCM encoded data from WAV audio file and based on essay *Beat Detection Algorithm* (comparing instant sound energy with average sound energy) to processing data stream, then implement it into VR Martial Arts to create a spawning system that along with tempo of any BGM assigned by users.

Genetic Algorithm / Subsumption Architecture (AI)

Responsible to implement genetic algorithm and subsumption architecture to create game scenes using Unity3D based on the current theory and academic essays. GA includes Crossover, Mutation, Population selection, Fitness function and so forth; SA includes Pursue, Flee, Obstacles avoid, Seek, and so forth.

Experience

Communicator	Cashier at on-campus Snack Shop Bytes (half a year till now)
Perseverant Learner	Rochester Institute of Technology Graduate Scholarship Second Class Scholarship of CUIT (awarded to less than 10% of CUIT students)
Keen Mind	17th National English Debate Contest for College Students-Third Prize of West China Division (British Parliament System)
Solo Adventurer	Solo road trip to Pittsburgh, Albany, and Philadelphia. Solo multi-transportation to Atlanta, Nashville and New Orleans Solo adventure to San Francisco with Student Expo at GDC 2017 Travel to Paris, Florence, Milan and Rome

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