Ran 'Ryan' Zhang, Gameplay Programmer

412.500.6879 | ranzhang@andrew.cmu.edu | www.ryanzh.com

EDUCATION	
Carnegie Mellon University, Entertainment Technology Center (ETC)	Pittsburgh, PA
Master of Entertainment Technology	May 2021
Shanghai Jiao Tong University (SJTU), School of Software	Shanghai, China
Bachelor of Science in Engineering, Majoring in Software Engineering	June 2019
REVELENT COURSES	
Computer Graphics, Linear Algebra, Algorithm, Computer System, Software Engineering, HCI	
SKILLS	
Languages: C#, C, C++ (OpenGL, OpenCV), SQL, Java, Java Script, Pythor	ı
Applications : Unity, Visual Studio, Maya, Substance Painter, Photoshop, Unreal Engine 4, QT	
ACADEMIC PROJECTS	
Building Virtual Worlds, Artist	ETC, Fall 2019
 Created video games in 2-3 weeks, worked with 5 teammates randomly g 	
 Cooperated people with different backgrounds, iterated fast, communicated and brainstormed 	
 Used non-traditional devices including HTC Vive, Magic Leap, Phidgets, 3D Rudder, etc. 	
 Modelled, rigged, textured and animated. Assisted programmers on visual effects and mechanism 	
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Mixed Reality Chemistry Lab Simulator, Programmer S.	JTU, July 2017 – June 2018
 Simulated chemical reaction and chemistry experiments with real senses of touching 	
Utilized HTC Vive, Leap Motion and Unity3D to create virtual reality version of the application	
• Utilized Kinect, Vuforia, Unity3D and OpenCV to create augmented reality version of the application	
Reading Equipment Combining E-books and Paper Book	SJTU, Spring 2018
 Created new reading device offering both real touching and electronic stor 	age
 Designed and implemented the user interface of both the software and hardware 	
 Constructed the pen-tracing system using computer vision algorithm and computer vision algorithm. 	cameras
Glacier and Phoenix (Computer Graphics application)	SJTU, Fall 2017
• Developed a interactable scene consisting of particle systems with C++ ar	nd OpenGL
PERSONAL PROJECTS	
Wonderland (Mobile Game), Designer, Programmer Per	sonal Project, Spring 2018
A simulation game designed for left-behind children and their parents to fa	cilitate their communication
Attended the 2-day Game Jam held by Target, collaborating with artists ar	nd Target staff
Realized the prototype with Unity3D guided by artists' procedure diagram	and assets
Deer (PC Game), Designer, Artist, Programmer	Personal Project, Fall 2018
A role play game controlled by voice completed with 2 months by 2 people	e based on Unity3D engine
Designed the story and mechanism, built the scene, implemented partial le	ogic in the game
EXPERIENCE	
NVIDIA (Shanghai, China), Cloud Gaming Software Engineer Internship	June 2018 – Jan 2019
 Tested games performance on different devices and supported them to be 	e streamed via Nvidia shield
ACTIVITIES	
Debate team of Shanghai Jiao Tong University	March 2016 – June 2018

• Competed in nation-wide debates and won several awards