Yujin Ariza
developer

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Education		
	Carnegie Mellon University, Entertainment Technology Center	09/2017 – 05/2019 (anticipated)
	Master of Entertainment Technology	
	The Juilliard School	09/2015 – 05/2017
	Master of Music, Violin Performance	
	Columbia University	09/2012 – 05/2015
	Bachelor of Arts, Computer Science	
	Columbia-Juilliard Exchange Program Participant	

Projects

Pupil: ETC, Graphics / Interaction Programmer — 09/2018 – present
etc.cmu.edu/projects/pupil/
- Set up a custom Mixed Reality development platform capable of passthrough VR, realtime spatial mapping, and hand interaction.
- Designed and implemented playful interactions for a classroom learning environment, using the Leap Motion SDK.
- Platform: Mixed Reality w/ Oculus Rift, Zed Mini, and Leap Motion

Music in Motion: ETC, Graphics / Audio Programmer — 01/2018 – 06/2018
etc.cmu.edu/projects/music-in-motion/
- Authored custom materials for water and other visual elements, using Unity CG Shaders.
- Designed and implemented interactive virtual instruments and audio effects in SuperCollider.
- Implemented a 12-speaker ambisonic sound setup for use in conjunction with virtual reality.
- Platform: HTC Vive

Vango: Painterly representations of images, Columbia — 10/2015
github.com/yariza/vango
- Implemented an image analyzer and brushstroke renderer to convert pictures to painting representations, in C++ and OpenCV.

Rainborg: GPU-accelerated Position-based Fluid Simulation, Columbia — 05/2015
github.com/yariza/rainborg
- Implemented a position-based fluid simulation in CUDA C/C++, running 60,000 particles at 30 frames per second.

Experience

Unity Technologies (unity3d.com) — 06/2017 – 08/2017 / 06/2016 – 08/2016
Software Development Intern, Spotlight Team
- Developed a low-level Memory Profiler for analyzing memory usage and fragmentation in the Unity engine, in C++ and C#.
- Collaborated with a Technical Art Director to create shaders in Unity for translucent materials.

Snapchat (snapchat.com) — 06/2015 – 08/2015
Software Development Intern, Camera Team
- Client and server code related to the scanning of Snapcodes, and other features, in C++, Objective-C, and Java.