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Education	Carnegie Mellon University, Entertainment Technology Center Master of Entertainment Technology	09/2017 - 05/2019
	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	33,2322
Projects	 Pupil: ETC, Graphics / Interaction Programmer 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 	09/2018 – present
	 Music in Motion: ETC, Graphics / Audio Programmer 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 	01/2018 - 06/2018
	 Vango: Painterly representations of images, Columbia github.com/yariza/vango Implemented an image analyzer and brushstroke renderer to convert pictures to painting representations, in C++ and OpenCV. 	10/2015
	 Rainborg: GPU-accelerated Position-based Fluid Simulation, Columbia github.com/yariza/rainborg Implemented a position-based fluid simulation in CUDA C/C++, running 60,000 particles at 30 frames per second. 	05/2015
Experience	 Unity Technologies (unity3d.com) 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. 	06/2017 - 08/2017 06/2016 - 08/2016
	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.