Joe Chang

				joekang95.github.io
TECHNICAL	Languages		Applications	Operating Systems
SKILLS	l .	 HTML/CSS 		 Windows
	• Java	 JavaScript 	 Eclipse 	 Mac OS
	• C • Python	PHPC#	PyCharm	• Linux
			 Unity 	
EXPERIENCE	Hierarchical Triangular Mesh Index for Astronomical Data Prof. Meng-Feng Tsai – National Central University Taoyuan, Taiwan Collaborated with a team of 4 students using HTM concept to develop on SPARK on YARN (Hadoop) environment			
DDOIECTS				January 2020 - May 2020
PROJECTS	VR Game – The		CSCLESO) University of Southern	January 2020 – May 2020
	 Augmented, Virtual and Mixed Reality (CSCI 538) – University of Southern California Los Angeles, CA Developed using Unity and Oculus Rift. As a group of 9 people, we created a VR 'cheating' game. The player is in an exam with a strange and hard quiz. The only way to answer correctly is cheat in a variety of ways. Inverse Kinematics			
	• Implemented Inverse Kinematics (IK), Forward Kinematic (FK), and Skinning on the given models. Users can drag the IK handles to animate the model, e.g. armadillo, in real time			
	_	k nandles to animate the Website / iOS App	e model, e.g. armadillo, in real tin	me March 2019 – May 2019
			y of Southern California Los Ang	-
	 Used AWS server and eBay API to write an iOS app that users were able to search for products and look furthe into the product's details and related products. Also had PHP and Node.JS version of website. 			
	Ray Tracing			March 2019 – April 2019
	Computer Graphic (CSCI 420) – University of Southern California Los Angeles, CA			
	 Developed with OpenGL. Built a ray tracer that could handle opaque, mirror surfaces with lighting and shadows. Included features such as antialiasing, soft shadows, and motion blur. Roller Coaster Simulation February 2019 – March 2019			
	Developed using OpenGL and used Catmull-Rom splines to create the rails that the camera can move in a reasonable speed physically realistic over the rails			
		o Player & Hyper-Linkin		November 2018 – December 2018
	Multimedia Syst	em Design (CSCI 576) – (University of Southern California	Los Angeles, CA
			dia Content that combines video ased on the content of the video	with a non-linear information structure,
	EDUCATION	Masters of Science in Computer Science (Multimedia and Creative Technologies) University of Southern California Los Angeles, CA Obtained a cumulative GPA 3.92 / 4.00		
VOLUNTEER	Remote Mount	tain District Service		June 2012
EXPERIENCE	Jie Shou Elementary School Fuxing District, Taoyuan, Taiwan			
	 Provided 	educational service to e	elementary children in a remote v	village
	 Designed 	courses and activities v	vith a group of 20+ students	
EXTRA- CURRICULAR	Student Association of Computer Science and Information Engineering Department 2015 – 2016			
	National Central University Taoyuan, Taiwan			
	Vice direct	ctor of News and Inform	ation Division	
INTERESTS	• 10+ years	s of experience playing p	piano; 7 years of experience playi	ng bass guitar

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