Joe Chang

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TECHNICAL SKILLS	Languages			Арр	Applications		Operating Systems	
	• C++	•	HTML/CSS	 Visual Studio 		 Windows 		
	• Java	•	JavaScript	•	Eclipse	•	Mac OS	
	• C	•	PHP	•	PyCharm	•	Linux	
	• Pyth	on		•	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)							
		onment						
PROJECTS	VR Game –			2001 5001		0 116	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 even with a strange and hard guiz. The only way to answer correctly is cheat in a variety of ways.							
	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 March 2020 – April 2020							
			and Cinculation /CC	C(E20) 1	Injugarity of Courthorn	California	March 2020 – April 2020	
	 Computer Animation and Simulation (CSCI 520) – University of Southern California Los Angeles, CA Implemented Inverse Kinematics (IK), Forward Kinematic (FK), and Skinning on the given models. Users can 							
			•	• •	g. armadillo, in real ti	_	the given moders. Osers can	
	_		osite / iOS App	inouel, e.	g. armaumo, m rear m	IIIC	March 2019 – May 2019	
				v of Southe	ern California Los An	naeles CA	Water 2015 Way 2015	
	 Web Technologies (CSCI 571) – University of Southern California Los Angeles, CA Used AWS server and eBay API to write an iOS app that users were able to search for products and look further 							
	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							
	Computer Graphic (CSCI 420) – University of Southern California Los Angeles, CA							
	Developed using OpenGL and used Catmull-Rom splines to create the rails that the camera can move in a process bloom and the rails that are left to the rails that the camera can move in a process bloom and the rails that the camera can move in a process bloom and the rails that the camera can move in a process bloom and the rails that the camera can move in a process bloom and the rails that the camera can move in a process bloom and the rails that the camera can move in a process bloom and the rails that the camera can move in a process bloom and the rails that the camera can move in a process bloom and the rails that the camera can move in a process bloom and the rails that the camera can move in a process bloom and the rails that the camera can move in a process bloom and the rails that the camera can move in a process bloom and the rails that the camera can move in a process bloom and the rails that the rails that the camera can move in a process bloom and the rails that th							
	reasonable speed physically realistic over the rails							
	Interactive Video Player & Hyper-Linking Video Tool November 2018 – December 2018 Multimedia System Design (CSCL 576) – University of Southern California Los Angeles CA							
	 Multimedia System Design (CSCI 576) – University of Southern California Los Angeles, CA Developed an Interactive Multimedia Content that combines video with a non-linear information structure, 							
	Developed an Interactive Multimedia Content that combines video with a non-linear information structure, allowing a user to make choices based on the content of the video							
EDUCATION	Masters o	f Science	in Computer Science	e (Multim	edia and Creative Ted	chnologies)	August 2018 – May 2020	
	University of Southern California Los Angeles, CA							
	Obtained a cumulative GPA 3.92 / 4.00							
VOLUNTEER EXPERIENCE	Remote Mountain District Service						June 2012	
	Jie Shou Elementary School Fuxing District, Taoyuan, Taiwan							
	Provided educational service to elementary children in a remote village							
	• Desi	gned cou	ırses and activities v	vith a group	p of 20+ students			
EXTRA-	Student A	ssociatio	n of Computer Scie	nce and Inf	formation Engineerin	g Departmei	nt 2015 – 2016	
CURRICULAR	National Central University Taoyuan, Taiwan							
			of News and Inform		ion			
INTERESTS			experience playing poerience photograpl		ars of experience play	ving bass guit	ar	