Joe Chang

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TECHNICAL	Languages		Appl	Applications		Operating Systems	
SKILLS	• C++	 HTML/CSS 	•	Visual Studio	• \	Vindows	
	Java	 JavaScript 	•	Eclipse	• [Mac OS	
	• C	PHP	•	PyCharm	• L	inux	
	• Python		•	Unity			
EXPERIENCE	Hierarchical Triangular Mesh Index for Astronomical Data Prof. Meng-Feng Tsai – National Central University Taoyuan, Taiwan June 2016 – Februar					June 2016 – February 2018	
	Collaborated with a team of 4 students using HTM concept to develop on SPARK on YARN (Hadoop) environment						
PROJECTS	VR Game – The					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.						
			ard quiz. The	e only way to answei	r correctly is che		
	Inverse Kinematics 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						
	drag the IK handles to animate the model, e.g. armadillo, in real time						
	Product Search iOS App April 2019 – May 2019						
	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 graduat's details and related are dusted.						
	into the product's details and related products.						
	_ · · · · · · · · · · · · · · · · · · ·					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 antializing, soft shadows, and motion blur.						
	shadows. Included features such as antialiasing, soft shadows, and motion blur. Roller Coaster Simulation February 2019 – March 20						
			af Ca+h a	un California I I on An		ebruary 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 reasonable speed physically realistic over the rails 						
					Novem	har 2010 - Dagambar 2010	
	Interactive Video Player & Hyper-Linking Video Tool November 2018 – December 201 Multimodia System Paging (CSCI-576) - Maintenairy of Southern California Local Apples 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, allowing a user to make choices based on the content of the video 						
EDUCATION	Masters of Science in Computer Science (Multimedia and Creative Technologies) August 2018 – May 2020						
	University of Southern California Los Angeles, CA						
	Obtaine	d a cumulative GPA 3.92	/ 4.00				
VOLUNTEER EXPERIENCE	Remote Mountain District Service June 20						
	Jie Shou Elementary School Fuxing District, Taoyuan, Taiwan						
	Provided educational service to elementary children in a remote village						
	Designed courses and activities with a group of 20+ students						
EXTRA-	Student Assoc	ciation of Computer Scie	nce and Info	rmation Engineering	g Department	2015 – 2016	

INTERESTS

CURRICULAR

- 10+ years of experience playing piano; 7 years of experience playing bass guitar
- 7 years of experience photography and editing films

Vice director of News and Information Division

National Central University | Taoyuan, Taiwan