Joe Chang

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TECHNICAL	Languages		Ар	plications	Operating Systems		
SKILLS	• C++	 HTML/CSS 	•	Visual Studio	• '	Windows	
	Java	 JavaScript 	•	Eclipse	•	Mac OS	
	• C	PHP	•	PyCharm	•	₋inux	
	• Python		•	Unity			
EXPERIENCE	Hierarchical Triangular Mesh Index for Astronomical Data Prof. Meng-Feng Tsai – National Central University Taoyuan, Taiwan					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 – Th					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.						
			and hard quiz. T	he only way to answe	er correctly is ch		
	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 depart to a UK be a disease a private the great of the great time. The state of the given models are a great time. The state of the given models are a great time.						
	drag the IK handles to animate the model, e.g. armadillo, in real time						
	Product Search Website / iOS App March 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 product's details and solated products. Also had BHR and Node IS version of website.						
	into the product's details and related products. Also had PHP and Node.JS version of website.						
	Ray Tracing	unhia (CCCL 420) Llui	warrity of Courth	orn California Los A	nacios CA	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						
				oue California I I oo A		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 reasonable speed physically realistic over the rails 						
					Never	-hau 2018 - Dasambau 2018	
	Interactive Video Player & Hyper-Linking Video Tool November 2018 – December 2018						
	 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 202						
	University of Southern California Los Angeles, CA						
	• Obtain	ed a cumulative GPA	3.92 / 4.00				
VOLUNTEER		untain District Servic	_			June 2012	
EXPERIENCE	Jie Shou Elen	nentary School Fuxi	ng District, Taoy	uan, Taiwan			
	Provided educational service to elementary children in a remote village						
	Designed courses and activities with a group of 20+ students						
EXTRA-	Student Asso	ociation of Computer	Science and In	formation Engineerir	ng 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