	Chan	~					0	(778)-855-2566		
JOe	Chang							joekang95@gmail.com		
		_					0	joekang95.github.io		
TECHNICAL	Languages				Applications		Operating Systems			
SKILLS	• C++	•	HTML/CSS	•	Visual Studio	•		Windows		
	• Java	٠	JavaScript	•	Eclipse	•		Mac OS		
	CPython	•	PHP C#	•	PyCharm Unity	•		Linux		
EXPERIENCE			_	Astronomic				June 2016 – February 2018		
	Hierarchical Triangular Mesh Index for Astronomical DataJune 2016 – February 2018Prof. Meng-Feng Tsai – National Central University Taoyuan, TaiwanJune 2016 – February 2018									
	Collaborated with a team of 4 students using HTM concept to develop on SPARK on YARN (Hadoop)									
	environment and assisted laboratory students on document writing									
	 Vancouver Academy of International Study Assisted teaching English and Math during the summer breaks. 									
	Assisted	teach	ing English and Mat	h during th	e summer breaks.					
PROJECTS	VR Game – The Exam Artist January 2020 – May 2020									
	• 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 March 2020 – April 2020									
	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 Website / iOS App March 2019 – May 2019									
	• 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									
	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.									
	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									
	Interactive Video Player & Hyper-Linking Video Tool November 2018 – December 2018									
	• 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									
	Multi-user Chatroom N						over	mber 2016 – December 2016		
	Individually develop a chat room in Java with the concept of socket programming									
	Election Predictor October 2016 – November 2016									
	• Collaborated with a team of 4 students to develop a system in Java using the concept of NLP to predict the 2016 American Presidential Election.									
	Crawled all training data from Facebook and Twitter fan pages of both candidates									
EDUCATION	Masters of So University of	August 2018 – May 2020								
	Obtained a cumulative GPA 3.92 / 4.00									
	Bachelor od Science in Computer Science National Central University (NCU) Taoyuan, Taiwan									
			s. Cumulative score	-						
				,						
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 Designed courses and activities with a group of 20+ students 									
	 Designed 	ed cou	rses and activities w	ith a group	of 20+ students					

EXTRA- CURRICULAR	 Student Association of Computer Science and Information Engineering Department National Central University Taoyuan, Taiwan Vice director of News and Information Division 	2015 – 2016
	Organizer of Campus E-sports Competition National Central University Taoyuan, Taiwan	2015 – 2016
	Groupe Leader of Document and Finance Group	
INTERESTS	 playing piano, bass guitar photography and editing films 	