Joe Chang

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TECHNICAL SKILLS	**Languages**		**Applications**	**Operating Systems**
	• C++ • HTML/CSS		• Visual Studio	• Windows
	• Java • JavaScript		• Eclipse	• Mac OS
	• C • MATLAB		• Code::Blocks	• Linux

	• Python • Assembly Language (x86, MIPS)		• Adobe
			  ▪ Photoshop / Lightroom
			  ▪ After Effect / Premiere Pro	

EXPERIENCE

Hierarchical Triangular Mesh Index for Astronomical Data   June 2016 – February 2018
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
- Assisted laboratory students on document writing

Visualization of Institutional Research Data   June 2016 – June 2017
National Central University Institutional Research Office – National Central University | Taoyuan, Taiwan
- Collaborated with a team of 3 students to visualize merged data into various graphs to discover relations between sets of data

PROJECTS

Network Designing and Simulating   May 2018 – June 2018
Introduction of networking and its practice (CE3057) – National Central University | Taoyuan, Taiwan
- Designed network topologies from given prerequisites
- Simulated and set up with Emulated Virtual Environment (EVE) and Cisco Packet Tracer

Analysis of Various Mask Operators on Images   November 2017 – January 2018
Image Processing (CE6033) – National Central University | Taoyuan, Taiwan
- Implemented various mask operators from 3 x 3 up to 9 x 9

Election Predictor   October 2016 – November 2016
Natural Language Processing (CE7024) – National Central University | Taoyuan, Taiwan
- Collaborated with a team of 4 students to develop a system in Java
- Attempted to predict the 2016 American Presidential Election
- Crawled training data from Facebook and Twitter fan pages of both candidates

PERSONAL PROJECT

Personal Webpage   September 2016
- Developed a webpage with photography and personal biography using HTML, CSS, and JavaScript

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

EDUCATION

Masters of Science in Computer Science (Multimedia and Creative Technologies)   August 2018 – Present
University of Southern California | Los Angeles, CA

Bachelor of Science in Computer Science and Information Engineering   September 2014 – June 2018
National Central University | Taoyuan, Taiwan
- Received 5 Presidential Rewards, achieved as top 3 students in department
- Obtained a cumulative GPA 3.97 / 4.00

EXTRA-CURRICULAR

Student Association of Computer Science and Information Engineering Department   2015 – 2016
National Central University | Taoyuan, Taiwan
- Vice director of News and Information Division

Organizer of Campus E-sports Competition   October 2015 – March 2016
- Managed document and finance

INTERESTS

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