

Shen-Fong Hung

Los Angeles, CA | shenfonh@usc.edu | 213-477-3956 | <https://paulhong01.github.io/Website/>

EDUCATION

University of Southern California, Los Angeles, CA

Fall 2018 – Present

Master of Science in Computer Science

- Awards: The Xinran Ji Memorial Scholarship
- Related Courses: Analysis of Algorithms, Foundations of Artificial Intelligence

National Chiao Tung University (NCTU), Taiwan

Master of Science in Communications Engineering

Fall 2016 – Spring 2017

- Overall GPA: 4.00/4.00
- Research Focus: 4G/5G MAC Layer Networking Protocols, Non-linear Optimization Theory

Bachelor of Science in Electrical and Computer Engineering

Fall 2012 – Spring 2016

- Ranking: 1/44; Overall GPA: 3.97/4.00; Major GPA: 4.00/4.00
- Related Courses: Object-Oriented Programming, Data Structures and Algorithms, Optimization Theory, Computer Organization, Database, Operating Systems

TECHNICAL SKILLS

- **Programming Languages:** Java, C, C++, Python, MATLAB, HTML, CSS, JavaScript
- **Mobile:** Android Studio(Java)
- **Databases:** MySQL, MongoDB
- **Computer Networks:** TCP/IP, BGP, IS-IS, L2/L3 Networking Protocols, LTE/5G Wireless Technology
- **Others:** Unix/Linux(Ubuntu), Git, TensorFlow, Scikit-learn, Bootstrap, Wordpress

EXPERIENCE

Software Engineer Intern, Umbo Computer Vision Inc, Taiwan

July 2017 – October 2017

- Improved QA testing process by developing automated testing script using Python, Selenium, MongoDB under Unix
- Created testing plans for 2 critical and several minor revisions; reviewed 40+ features of product interfaces and functionalities for web, Android App and IOS App; communicated testing results with developers

Research Assistant, Mobile Intelligent Network Technology Laboratory (NCTU)

September 2015 – July 2017

- Researched L2/L3 networking protocols for 4G/5G wireless networks with green communications technologies
- Designed two novel MAC layer resource allocation algorithms using nonlinear optimization theory to enhance at least 15% energy efficiency compared to traditional LTE-A networks
- Constructed heterogeneous wireless networks software simulations' environment and programmed proposed algorithm using MATLAB
- Published and presented to 50+ professionals at IEEE Wireless Communications and Networking Conference 2017

Summer Firmware Engineer Intern, IMEC, Taiwan

July 2015 – August 2015

- Built communication system for microcontroller of smart watch by implementing I2C protocol
- Collaborated with two other colleagues to port smart watch sensors drivers to MCU framework

Freelance Web Developer

January 2015 – May 2015

- Developed websites for two global firms. Works included The Glenlivet Taiwan's official website (<http://www.theglenlivet.com.tw>) and Aberlour Taiwan's official website (<http://www.aberlour.com.tw/home.html>)
- Coordinated website functionality with website designer; constructed website framework using Wordpress, and modified website layout and functionality to follow designers' design using HTML 5, CSS, PHP, and Wordpress plugin

Chief of Academics Department, NCTU ECE Student Union

July 2014 – June 2015

- Led 15 team members to organize 10 talks from outstanding alumni and 4 company visit workshops

Chief of Activities, NCTU Freshman Orientation Camp

January 2014 – June 2014

- Trained and led 10 team members to organize catering, lodging and transportation for 150+ freshman

SELECTED PROJECTS

Augmented Reality [C++, OpenGL, OpenNI]

- Organized team of 3 in development of an interactive AR application with Kinect sensor and achieved 60% confidence of human skeletons' positions by cross comparison of depth information through OpenNI library
- Improved user experience by creating 3D virtual objects and depth information based shadow effect through OpenGL

TravelMap Android App [Android, Java, PHP, MySQL]

- Built an Android App for tourists to search nearby attractions and view other users' comments
- Designed relational database for attractions and implemented Android backend using PHP and MySQL