Yang Hu

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EDUCATION

M.S. in Computer Science, **Northwestern University.** GPA: 3.8/4.0 *09/2014 -**06/2016**(Expected)*

- Murphy Fellow

B.S. in Electrical Engineering, **Tsinghua University,** Beijing. GPA: 90.8/100 *09/2010 - 07/2014*

SKILLS

- C/C++, JAVA (expert), Python, Javascript, AngularJS, Swift, Lisp, Perl(proficient)
- PhoneGap, Parse, gcc/gdb
- Algorithms, Database, Operation Systems, Kernel Development, Machine Learning

RESEARCH EXPERIENCE

Graduate Research Intern, ***Northwestern University*** Mentored by Dr. Yan Chen *06/2015 – 09/2015*

Undergraduate Research Intern, Tsinghua University, Beijing Mentored by Dr. Liangrui Peng *06/2013 – 04/2014*

PROJECTS

Large-scale Android Application Latency Measurement *10/2015 – 04/2016*

- Proposed a three-layer model on Android network latency as first mile latency, network transmission latency and server response latency.
- Implemented the three-layer model, including a front-end Android app with ARP packet pair approach and back-end server with packet train measurement approach.

Network Interface Card Driver Development *01/2016 – 04/2016*

- Developed Network Interface Card driver for Nautilus OS kernel under qemu virtualization emulator.
- Implemented Ethernet packets transmission and reception with concurrency.

Aarogya Healthcare Android app Development *03/2015 – 09/2015*

- Implemented an Android app that facilitates users on their health related search. Designed user-friendly interface for Indian people to search for near-by hospitals for specific diseases.
- Implemented an interface for health organizations to analyze user search history based on their geo-location.

Handwritten Mathematical Expression Recognition *06/2013 – 06/2014*

- Implemented a dynamic programming based online handwritten image segmentation and symbol recognition algorithm.
- Designed a web-service user interface which produced text output in LaTeX grammar.

3D Object Detection in Low-resolution Images *09/2012 – 04/2013*

- Co-developed a framework of object detection to detect flying objects in laser images that were generated and re-collected by a laser dispenser and receiver.
- Proposed a hardware based algorithm to extract and match speeded up robust features (SURF) on gray-level images.

Wildhacks 2015, Northwestern University *10/2015 – 11/2015*

- Implemented YoursTruly, which is a location-based crowd-sourcing app for users to record their voice messages related to their personal stories
- Won the Facilitates Communication Award