

Yang Hu

EECS Department
Northwestern University
2145 Sheridan Road, Evanston IL 60208

<http://yhx189.github.io>
Mobile: 1-224-420-1560
yanghu@u.northwestern.edu

EDUCATION

M.S. in Computer Science, **Northwestern University**. GPA: 3.7/4.0 09/2014 - **06/2016**(Expected)

- Murphy Fellow

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

SKILLS

- C/C++, Java(expert), Python, Javascript, AngularJS, Swift, Lisp(proficient)
- CodeIgniter, PhoneGap, Parse, MySQL, gcc/gdb
- Algorithms, Database, Operation Systems, Machine Learning

RESEARCH EXPERIENCE

Graduate Research Intern, **Northwestern University** Mentored by Dr. Yan Chen 09/2015 – 05/2016

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

PROJECTS

Android App Development: AppProphecy 10/2015 – 05/2016

- Designed and implemented an Android app to send ARP requests and track response, and find the corresponding server based on geo-location, implemented in Java.
- Implemented the back-end server with packet train measurement approach and designed the API to respond to HTTP requests, implemented in Python and C++.

Open-Source Network Interface Card Driver Development: Nautilus 01/2016 – 05/2016

- Developed Network Interface Card driver for Nautilus OS kernel under qemu virtualization emulator, implemented in C.
- Implemented Ethernet packets transmission and reception with concurrency, accepted to the [Nautilus](#) project.

Android App Development: [Aarogya](#) 03/2015 – 09/2015

- Designed and 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 in Java.
- Implemented an interface for health organizations to analyze user search history based on their geo-location, implemented in Python.

Machine Learning Research: Handwritten Mathematical Expression Recognition 06/2013 – 06/2014

- Implemented a dynamic programming based online handwritten image segmentation and symbol recognition algorithm in C++.
- Designed a web-service user interface which produced text output in LaTeX grammar in Javascript.
- Published [an academic paper](#) on DAS 2014.

Agile Software Management Project: Livypad 03/2015 – 06/2015

- Developed an iOS app that shows medical appointments for families to keep track of preventative care visits. Integrated with in-app calendar and push notification features based on user-generated data managed on Parse.
- Implemented in the PhoneGap framework using AngularJS and HTML/CSS.

Hackathon Winner , [Wildhacks 2015](#) 10/2015 – 11/2015

- Implemented YoursTruly in Swift, which is a location-based crowd-sourcing app for users to record their voice messages related to their personal stories and facilitate easy-to-share features based on geo-location.
- Won the Facilitates Communication Award.