800 Dongchuan Road, Minhang District, Shanghai China Tel:+86 152 1671 2024 Email: 95588lsj@gmail.com

**EDUCATION** 

Bachelor of Engineer, Computer Science

(expected) July 2013

ACM Teaching Reform Class, Shanghai Jiao Tong University

Original GPA: 89.38/100 Rank: 2/30 GPA: 3.82/4

**PROJECTS** 

I am a hacker who makes useful tools and web things in C, C++, Java, Lua and PHP with 10+ projects hosted on GitHub(@furtherLee). Details in the **project list**.

HP SMC(Seamless Mobile Connectivity) Project

July  $2012 \sim \text{Now}$ 

During my internship in HP Labs China, I am working on HP SMC project to bring a cellularnetwork-like end-user experience to Wi-Fi authentication and roaming. My contributions include:

- 3 papers and 3 patents cooperated with my supervisor Yongqiang Liu;
- A Qt4 wireless management client on Linux with auto AP discovery and selection utility;
- A suite of stress test tools written in C and Lua for Hotspot2.0 enabled HP APs;
- A wireless management client with EPA-SIM authentication on android.

Tiger(Course Project)

Spring 2011

A compiler for language Tiger written in Java. Code: 15,000 Lines

- Used quadruple as intermediate representation, linear scan algorithm for register allocation.
- Applied optimization including DAG, loop unrolling and peekhole etc. making a 8-queen program running on spim for only 24,000 instructions.

TeNet(Course Project)

Spring 2011

A mini IP/TCP protocol stack running on a simulator written in Java.

- I implemented ARP, L2 Switch, IP, TCP and DV for dynamic routing, all in 1 month;
- I was the only one who finished all tasks with a score of 100(ranked 1 out of 30).

Paike Website Spring 2012

A website written in PHP, HTML5 and JS, finished in 2 days, providing fast job assignment service.

- $\bullet$  Assigned jobs to peers using Hungarian algorithm or handwork for managers.
- Made job assignment only a **one-click work** from a 1-hour struggle in a group of 78 members.

## PUBLICATION

- Yongqiang Liu, **Shijian Li**, Junqing Xie: u-Shield: A Defense Mechanism to Prevent AP from I/O Blocking Attack with IEEE802.11u. WoWMoM 2013(submitted)
- Yongqiang Liu, Xunteng Xu, Junqing Xie, Qunyang Lin, **Shijian Li**, Ran-Fun Chiu, Paul Congdon, Stephane Laroche, Rob Fowler, and Kyu-Han Kim: *Hotspot2.0: a Seamless Roaming Enhancement for HPN MSM Wi-Fi Systems*. HP TechCon'13(submitted)
- Yongqiang Liu, Xunteng Xu, **Shijian Li**, Junqing Xie, Qunyang Lin: An Intelligent and Robust Extension to Hotspot2.0 Client, HP TechCon'13(submitted)

## **PATENT**

- A Solution to Prevent an I/O Blocking Attack to AP with IEEE802.11u (to be filed)
- A Solution to Protect Memory Attack to AP with IEEE802.11u (to be filed)
- A Solution to Bogus GAS Response Attack with IEEE802.11u (submitted)

## COMPUTER SKILLS

C, C++ and Java Master PHP, JS, LUA Amateur Tex Enthusiast Linux and System Hacker Software Architecture Zealot Agile Developer

TEACHING ASSISTANT for

ACM Class

- Project Workshop of Compiler Principles Spring 2012

  We designed a new language like a mixture of C and Java for our sophomores to implement.
- Set Theory and Mathematical Logic

Fall 2011

• Principle and Practice of Computer Algorithms

Summer 2011

EXTRA-CURRICULAR ACTIVITIES

- Activist in iTuring Community Translating IT books and articles into Chinese
- Cofounder of AngularJS Chinese Community(angularjs.cn) Unofficial community to learn and develop AngularJS based web applications
- Volunteer of Expo 2010 Shanghai Star of Volunteers