

# Shijian Li

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**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**      **4-scale GPA: 3.82/4**

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

*HP SMC(Seamless, Mobility, Connectivity) Project*      July 2012 ~ Now  
During my internship in HP Labs China, I am working with Networking Group on HP SMC project, in which hotspot 2.0 functionality is integrated into HPN MSMN APs. My contribution consists of:

- 3 papers and 3 patents cooperated with my supervisor Yongqiang Liu;
- A hotspot 2.0 integrated Qt4 client on Linux with auto selection utility;
- A suite of stress test tools written in C and Lua for hotspot 2.0 enabled HPN MSMN APs;
- A wireless connection 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.

*Paike Website*      Spring 2012  
A website written in PHP, HTML5 and JS, finished in 2 days, providing fast job assignment service.

- 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, **Shijian Li**, Qunyang Lin: *A Flexible, Secure and High-Performance Hotspot2.0 Service System for HPN MSGN APs*. 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**      • Yongqiang Liu, **Shijian Li**, Junqing Xie: *A Solution to Prevent an I/O Blocking Attack to AP with IEEE802.11u* (to be filed)

• Yongqiang Liu, **Shijian Li**, Junqing Xie: *A Solution to Protect Memory Attack to AP with IEEE802.11u* (to be filed)

• **Shijian Li**, Yongqiang Liu, Junqing Xie: *A Solution to Bogus Response to Client 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**      *All for ACM Class in Shanghai Jiao Tong University*

- *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