E-mail: xiang.li@rice.edu
Phone: 713-502-0992

Xiang Li

2410 Shakespeare Street, Unit 60,
Houston, Texas, 77030

Objective Seeking a Software Development Engineer Internship from **mid-May** to **mid-August**, 2017

Education

Rice University, Houston, Texas *Expected Dec. 2017*
Department of Computer Science
Master in **Computer Science** track from Computational Science and Engineering program

Shanghai Jiao Tong University, Shanghai, P. R. China *Aug. 2016*
University of Michigan - Shanghai Jiao Tong University Joint Institute (UM-SJTU JI)
Bachelor in **Computer Engineering**, with major GPA: **3.5**/4.0

Computer Skills

Programming Languages:	Java, Javascript, C/C++, C#, Python, SQL, HTML/CSS, Verilog
Operating Systems:	Linux Ubuntu/CentOS, Mac OS, Windows, Minix
Platforms/Frameworks:	Git, SVN, Vim, Node.js, React/Redux, Hadoop, Jenkins, MyBatis, Hibernate

Work Experience

Software Engineer Intern, Transwarp Technology, Shanghai, P. R. China *Feb. 2016 - Apr. 2016*
- Constructed an integrated test environment on **Jenkins** for a five-person development goup
- Designed connection methods for company's own Hadoop database with DBCP connection pool and ORM frameworks (Mybatis, Hibernate), along with supporting **batch processing** operations

Project Experience

Full-stack Web Development for an Online Social Network *Sep. 2016 - Dec. 2016*
- Used **React/Redux** and Bootstrap in **ES2016+** (webpack) to develop front-end web pages (landing, main, and profile), allowing logged-in users to add friends, post articles and update profiles
- Implemented an **Express** server on **Node.js**, connected to MongoDB; supports CRUD operations for profiles, avatars, headlines, articles, comments and followers
- Added user authentication (salting by hash, cookie), session management via **Redis**, third-party authentication via **OAuth** (Facebook, Twitter), and permanent image uploading via **Cloudinary**

Software for Distributed Printing Service, sponsered by *HP*, Team Leader *Sep. 2015 - Dec. 2015*
- Saved at least **70**% **print time** for those small companies who meet large print jobs ($>$ 500 pages) but cannot afford expensive printers, by fully utilizing existing normal printers simoutaneously
- Designed a **genetic algorithm** to intelligiently allocate print jobs to different printers
- Handled issues including paper jam and paper fault, and supported customization function
- Coded in **C**# to accomplish computer-printer interactions, in around 2000 lines of codes

Operating System and Cryptography Projects in C *May 2014 - Dec. 2015*
- Wrote a **unix-like shell** using system calls , supporting common commands
- Completed **earliest-deadline-first scheduling** and **lottery scheduling** in Minix 3
- Impelmented **AES** and **RSA** Encryption/Decryption

CPU Design and Verification *Oct. 2014 - Nov. 2014*
- Designed and coded a five-stage **pipeline CPU**, supporting the complete MIPS instruction set
- Resolved **all data/control harzard issues**, and verified the CPU on a FPGA board

Intelligent Medicine System *Nov. 2012 - Dec. 2012*
- Wrote C codes on Arduino Mega, with GSM module (for transmitting SMS to mobile phones)
- Won **Silver Award** in 2012 Winter Design EXPO of Joint Institute, SJTU

Academic Honors

Guanghua Scholarship, **3 /1000** students per institute *Sep. 2014 - Jun. 2015*
Merit Student, **1/25** students per year *Sep. 2014 - Jun. 2015*
Dean's List, for excellent academic record with GPA $>$ **3.5** *Feb. 2014 - Aug. 2014*

Selected Publications

Research interests in **computer networks** and **network security**
- **Xiang Li**, Mengyuan Li, Na Ruan, Fan Wu, and Jie Li, *"Efficient and Enhanced Broadcast Authentication Protocols based on Multilevel μTESLA"*, in Proceedings of the 33rd IEEE International Performance Computing and Communications Conference (**IPCCC**), Dec. 2014 (acceptance rate: 30%)
- Na Ruan, Lei Gao, Haojin Zhu, Weijia Jia, **Xiang Li** and Qi Hu, *"Toward Optimal DoS-resistant authentication in Crowdsensing Networks via Evolutionary Game"*, in Proceedings of the 36th IEEE International Conference on Distributed Computing Systems (**ICDCS**), June 2016 (acceptance rate: 18%)