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Xiang Li

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

Education

Rice University, Houston, Texas *Sept. 2016 - Jan. 2018*
Master in **Computer Science**, in Computational Science and Engineering program
Courses in-progress: Web Development, OOP and design, Computer Architecture, Computational Science
Courses to-be-taken in spring: Compiler, Database Implementation, Operating Systems, Machine Learning

Shanghai Jiao Tong University, Shanghai, P. R. China *Sept. 2012 - 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
Courses: Intro. to Operating Systems, Database, Data Structure, Algorithms, Object-oriented programming, Computer Organization, Computer Network, Cryptography, Intro. to Data Mining

Computer Skills

Programming Languages: Java, C/C++, Javascript, C#, Python, SQL, HTML/CSS, Verilog
Operating Systems: Linux Ubuntu/CentOS, Mac OS, Windows, Minix
Softwares/Frameworks: Git, SVN, Vim, Jenkins, LaTeX, Mathematica, Matlab, Xilinx ISE

Work Experience

Software Engineer Intern, Transwarp Technology *Feb. 2016 - April 2016*
- Constructed an integrated test environment on Jenkins, and wrote some JUnit test cases
- Figured out ways and constructed complete demos for connecting company's own Hadoop database with popular connection pools (DBCP) and ORM frameworks (Mybatis, Hibernate)
- Learned how to work with HDFS and Hive data hubs in the Hadoop Ecosystem

Project Experience

Software for Distributed Printing Service, cooperated with *HP*, Team Leader *Sept. 2015 - Dec. 2015*
- Developed a software to intelligently distribute big print jobs to multiple printers, in **C#**
- Implemented **algorithms** to reallocate print jobs when issues arise such as paper jam, paper fault
- Accomplished the computer-printer **interactions** by calling Windows APIs, **2000** lines of codes totally

Operating Systems and Cryptography Projects in C *May 2014 - Dec. 2015*
- Used system calls to write a **unix-like shell**, supporting commands such as pipe and change directory
- Implemented **earliest-deadline-first scheduling** and **lottery scheduling** in Minix 3
- Implemented **AES** and **RSA** Encryption/Decryption

Design and Verification of MIPS CPU, Team Leader *Oct. 2014 - Nov. 2014*
- Implemented both single-clock-cycle and **pipeline CPU**, which resolved **all harzard issues**
- Programmed using Verilog to verify it on a FPGA board, with full credits and **10**% **bonus**

Intelligent Medicine System *Nov. 2012 - Dec. 2012*
- A mechatronical project to assist old citizens, by automatically splitting pills, ringing the bell, and **sending SMS to their mobile phones**
- C Programming on Arduino Mega (a microprocessor), with GSM module (for transmitting SMS)
- Won **Silver Award** in 2012 Winter Design EXPO of Joint Institute, SJTU

C++ / Python/ Java Programming Course Projects *April 2013 - Dec. 2014*
- About **20** small projects, **400** to **1000** lines of codes each project, and **11000** lines of codes in total

Academic Honors

Guanghua Scholarship, **3** students per institute out of **1000** *Sept. 2014 - June 2015*
Merit Student, **1** student out of **25** per year *Sept. 2014 - June 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%)