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Xiang Li

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

Expected Dec. 2017

Education Rice University, Houston, Texas

Department of Computer Science

Master degree in Computer Science, in Computational Science and Engineering program

Major GPA: 3.7/4.0

Shanghai Jiao Tong University, Shanghai, P. R. China

Aug. 2016 University of Michigan - Shanghai Jiao Tong University Joint Institute (UM-SJTU JI)

Bachelor degree in Computer Engineering

Major GPA: 3.5/4.0

Computer **Skills**

Programming Languages: Java, C, C++, Javascript, C#, Python, SQL, HTML/CSS

Platforms/Frameworks: Git, SVN, Vim, Node.js, React/Redux, Hadoop, Jenkins, MyBatis, MongoDB

Work Experience **Software Engineer Intern**, Amazon Inc., Seattle, WA

May 2017 - Aug. 2017

- Worked in a platform development team of order aggregation for all Amazon e-commerce customers
- Developed a dynamic invoker for all plugins that use Amazon's new RPC framework
- Contributed in modernizing our aggregation platform as well as simplifying debugging effort

Software Engineer Intern, Transwarp Technology, Shanghai, P. R. China

Feb. 2016 - Apr. 2016

- Constructed an integrated test environment on Jenkins
- 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

- Front-end url: https://renren.surge.sh (supports Chrome best)
- Used React/Redux and Bootstrap to develop web pages (landing, main, and profile)
- Implemented an Express server on Node.js, connected to MongoDB, which supports authenticated login/logout and CRUD operations for profiles, avatars, articles, comments and followers
- Added user authentication (salting by hash, cookie), session management via Redis, third-party authentication via OAuth2, Passport(Facebook), 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 small companies, who meet large print jobs (> 500 pages) but cannot afford expensive printers by fully utilizing existing normal printers simultaneously
- 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

GIS-map-based Client-Server Game

Nov. 2016 - Dec. 2016

- Created a game that players in each team move on a map to be together within certain rounds
- Designed lobby and team chat rooms, supporting real-time conversations based on Java RMI
- Implemented message passing in all communications (not using Java JMS), handling well-known and unknown commands from senders; achieved cmd-to-cmd communication for game processing

Operating system kernel and file system implementation

Jan. 2017 - May 2017

- Wrote a unix-like kernel that support system calls including Fork(), Exit(), Delay(), etc.
- Implemtend a unix-like file system through a RPC framework

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%)