**Luzhen Qian**

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***EDUCATION***

**University of Southern California** Los Angeles, CA

M.S. in Computer Science (GPA: 3.6 / 4.0) Aug. 2015 ~ Expected May. 2017

**Xidian University** Xi’an, China

B.S. in Telecommunication Engineering (GPA: 3.8 / 4.0) Sept. 2011 ~ Jun. 2015

***EXPERIENCE***

**Software Engineer** at Skyline**,** Summer 2016, Intern BeiJing, China

● Implemented an automatic charts render for a warehouse system which saved 20% team work time

● Implemented back-end logic of a purchase system with Node.js, ES2015 and PostgreSQL in MVC model

● The product has already been used for production environment (Lenovo Procurement Team)

***PROJECT***

**Stock Search Website and IOS App with Facebook Mashup Based in AWS**

● Created a stock search website with HTML5, JavaScript, JQuery Plugins and PHP with stock historical data charts (in different time interval), related news search and basic stock information

● Implemented data interchange, manipulation using Ajax. Implemented data autocomplete by using JQuery

● Built a natural stock search (same functions) IOS APP with Facebook Mashup based on Swift2.0, CocoaPods

● Used HTTP request and core data technology to implement and speed up data fetching and saving than 90%

**Animal Positions Query JAVA GUI**

● Implemented an animals’ positions query system with JDBC connecting & querying from Oracle Express 11g

● Optimized performance using memory caching within expired time and data in-place updating

**Shopping Cart**

● Built a payment system with back-end operations and database updating using PHP and MySQL

● Provided eventual consistency and managed data concurrency and consistency used locking mechanisms

● Implemented the front-end data updating by Ajax. Used HTML5 local storage to speed up data fetching

**Unix File Transmission Program**

● Built a system implementing a client and servers to transfer files using socket

● Provided reliable data stream through TCP. Used Kruskal algorithm to reduce time delay

**Search Engine Using Solr**

●Implemented process and thread creation along with synchronization components like scheduler

●Implemented some of the file system operations like open, read and write with respect to the RAMFS filesystem

●Implemented virtual memory components like vmareas, page tables, page faults for user and kernel processes

***SKILLS***

**Software:** Skilled in Java(strongest), JavaScript(Node.js), HTML, PHP. Familiar with C/C++, Git, Python, CSS

**Databases:** MySQL, SQLite, PostgreSQL