

JIASHUO WANG

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OBJECTIVE

Seeking a summer internship in 2015, specializing in Software Developing such as Cloud Computing, OS and Database.

EDUCATION

UNIVERSITY OF MICHIGAN, ANN ARBOR

Ann Arbor, MI

MS: *Major in Electrical Engineering: Systems- Control, Minor in Computer Science*

Sep 2014- Present

- Coursework: CS: Introduction to Operating System, Database Management Systems, EE: Linear Systems Theory, Probability and Random Processes, Digital Signal Processing and Analysis
- Core GPA: 3.7/4.0

SHANGHAI JIAO TONG UNIVERSITY

Shanghai, CN

BS in *Information Engineering*

Sep 2010- Jul 2014

- Among the TOP Universities in China
- Core GPA: 87.1/100

AWARDS

- Honorable Mention in *MCM/ICM (Mathematical Contest in Modeling/ Interdisciplinary Contest in Modeling)* Jan 2013
- Academic Excellence Scholarship in Shanghai Jiao Tong University Sep 2012

ACADEMIC EXPERIENCES

CLOUD COMPUTING GAME PROGRAMMING

Shanghai, CN

Team Leader

May 2013- Jun 2013

- (Java) Used the phone as the client device and the computer as the cloud computing server
- (Java Socket) Succeeded in the cloud computing to exchange data in time

MULTI-THREADED PROGRAMMING

Ann Arbor, MI

Core Member

Jan 2015- Present

- (C++) Wrote a concurrent program that schedules disk requests with high-level synchronization operations like monitors
- (C++) Implemented the high-level synchronization operations with low-level atomic operations on multiprocessor systems
- (C++) Wrote a pager to manage virtual memory for application processes involving system calls and address space handling
- (Software Testing) Debugged this non-deterministic program by writing several test cases

SQL QUERY PROCESSOR IMPLEMENT WITH C

Ann Arbor, MI

Core Member

Nov 2014- Dec 2014

- (Database, Data Structure) Understood how hash table, B+ tree, clustered index work and how to do the external sort
- (C) Implemented the process of INSERT, SELECT with index, SELECT without index, simple nested loop JOIN, indexed nested loop JOIN, sort merge JOIN

QUERYING FAKEBOOK DATABASE

Ann Arbor, MI

Core Member

Sep 2014- Oct 2014

- (SQLite, SQLplus) Used SQL to query such as to suggest friends based on shared friends with relations like Facebook
- (Java, JDBC) Embedded my SQL queries into Java using JDBC to implement a "FakeBook Oracle"

USER PREFERENCE BASED TAG RE-RANKING FOR SOCIAL IMAGES

Shanghai, CN

Research Analyst

Nov 2013- Jun 2014

- Improved tag ranking algorithms by considering both visual clues and tag similarity
- (Python, Matlab) Estimated the probabilistic tag relevance based on image features including color, texture, key points
- (Matlab) Refined the tag relevance by random walk based on the coupled tag similarity

MASTER-SLAVE COMMUNICATION PROTOTYPE MAKING

Shanghai, CN

Team Leader

Mar 2013- Jun 2013

- (Management) Led a 16-people team and divided them into 5 groups based on the design of a medium-scale system
- (C) Designed wired/wireless communication protocol with a mechanism like TCP to reach nearly 100% success rate

SKILLS

- C/C++, Java, SQL, Python, Matlab, Labview, VHDL, Verilog, Linux, Bash, White-box Testing, Black-box Testing

LEADERSHIP AND ACTIVITIES

- Served in the dining hall of the university and learned how to cook and manage Jan 2015- Present
- Organized many class trips and activities as the head of class Mar 2011- Jul 2014
- Led a 7-people volunteer team to help freshmen settle in and adjust to college Sep 2011