Jiangchuan He

CONTACT INFORMATION	382 Joe Mccarthy Dr Amherst, NY 14228	*Tel:* (716) 604-7268 *Email:* jiangchu@buffalo.edu *Website:* http://www.buffalo.edu/~jiangchu/

EDUCATION

M.S., Computer Science, University at Buffalo   Sep.2013-Dec.2014
GPA:3.3/4.0
Coursework: Algorithm Analysis and Design, Machine Learning, Pattern Recognition,
Operating System, Distributed System, Fundamental of Programming Language

B.E., Software Engineering, Sichuan University   Sep.2009-Jun.2013
GPA:3.3/4.0
Coursework: Discrete Mathematics, Data Structure, Database Systems, Computer
Architecture, System Programming, Computer Network

IMPRESSIVE PROJECTS

OS161 Kernel Implementation
- Designed Synchronization Primitives, System Calls and Process Support, Virtual Memory which supports swapping.
- Used Git to manage source code and collaborate with parnter.
- Built everything from startup and completed all the test cases.

Distributed Hash Table Implementation
- Implemented a Dynamo-style distributed hash table using 5 android emulators.
- The program supports all Dynamo functions such as partition, replication and failure handling.

Gesture Recognition using Hidden Markov Model
- Used Spatial Clustering to extract observation sequences.
- Implemented Hidden Markov Model and used it to give prediction with almost 90% correct rate.

HONORS AND AWARDS

Oracle ThinkQuest Competition(Global Top 10%)   Jun.2012
We implemented a windows application which allows user to control multiple computers in a group using one mouse and keyboard device. The features include directly dragging files among screens and clipboard data sharing. I am the major designer responsible for implementing application structure as well as the features mentioned above.

Chinese Sciences Cup(National Top 13 teams)   Sep.2011
We designed and implemented the early version of the multiple computers mouse and keyboard sharing application. I launched this project in windows MFC framework. I designed several key tricks such as using transparent window and global hook to capture interactive messages.

WORKING EXPERIENCE

GSK CNC Equipment Co., Ltd.   Jun.2010-Aug.2010
Software Engineer Intern
- Learned to use ARM Cortex-M3 processor and STM32 development board
- Successfully porting x86 uC/OS kernel to ARM Platform
- Implemented a two-axis machine tool control program based on STM32F103 development board, which helped me gain the excellent award in my Undergraduate Final Project.

Sichuan Hwadee Information and Technology Co., Ltd.   Jun.2012-Aug.2012
Web Developer Intern
- Designed and Implemented a House-Selling Website.
- My task was to write and test front end.

COMPUTER SKILLS

Language: x86 and Thumb Assembly, C/C++, Java, Shell Script, Python, Javascript, HTML, CSS
Tools: Vim, Eclipse, Visual Studio, uVision, LaTeX
Operating System: Mac OS X, Linux, Windows, uC/OS