

Jiangchuan He

CONTACT INFORMATION	382 Joe McCarthy Dr Buffalo, NY 14228	<i>Tel:</i> (716) 604-7268 <i>Email:</i> jiangchu@buffalo.edu
OBJECTIVE	To find a internship or full time software engineer job after Dec.2014 with preferred work locations in TX, CA, Fl or other locations required by company.	
EDUCATION	M.S., Computer Science, University at Buffalo GPA:3.29/4.0 Coursework: Algorithm Analysis and Design, Machine Learning, Pattern Recognition, Operating System, Distributed System, Fundamental of Programming Language B.E., Software Engineering, Sichuan University GPA:3.3/4.0 Coursework: Discrete Mathematics, Data Structure, Database Systems, Computer Architecture, System Programming, Computer Network	Sep.2013-Dec.2014 Sep.2009-Jun.2013
HONORS AND AWARDS	Oracle ThinkQuest Competition(Global Top 10% teams) Chinese Sciences Cup(National Top 13 teams)	Jun.2012 Sep.2011
WORKING EXPERIENCE	GSK CNC Equipment Co., Ltd. <i>Software Engineer Intern</i> <ul style="list-style-type: none">• Learned to use ARM Cortex-M3 processor and STM32 development board.• Successfully porting x86 μC/OS kernel to ARM Platform.• Developed a two-axis machine tool control software based on STM32F103 development board, which was awarded in Undergraduate Final Project. Sichuan Hwadee Information and Technology Co., Ltd. <i>Web Developer Intern</i> <ul style="list-style-type: none">• Designed and built a House-Selling Website.• Wrote and maintained project documents.• Implemented and tested front end code.	Jun.2010-Aug.2010 Jun.2012-Aug.2012
PROJECTS	Mouse and Keyboard Sharing Application <ul style="list-style-type: none">• Designed a Windows MFC Application which allows user to control multiple computers in a group using one mouse and keyboard device.• The features included directly dragging files among screens and clipboard data sharing.• I was the major designer responsible for implementing application structure as well as the features mentioned above. Harvard OS/161 Kernel Implementation <ul style="list-style-type: none">• Developed a multicore operating system kernel which runs on MIPS r2000 simulator.• The work included implementing Synchronization Primitives, System Calls and Process Support, Virtual Memory which supports swapping.• Used Git to manage source code and shell scripts to improve efficiency.• Built everything from the beginning and completed all the test cases. Pen-gesture Recognition with Hidden Markov Models <ul style="list-style-type: none">• Designed spatial clustering algorithm to extract observation sequences.• Implemented Hidden Markov Model and used it to give prediction with almost 90% correct rate.• Designed and implemented prediction algorithm also using Dynamic Time Warping and Viterbi decoding. Amazon Dynamo(Distributed Key-Value Storage) <ul style="list-style-type: none">• Created a Dynamo-style key-value storage using five Android Emulators.• Implemented the functionality of partition, replication and failure handling.• Provided both availability and linearizability at the same time using Quorum replication.	Feb.2011 Feb.2014 Apr.2014 May.2014
COMPUTER SKILLS	Language: x86 and Thumb Assembly, C/C++, Java, Shell Script, Python, Javascript, HTML, CSS Tools: Vim, Eclipse, Visual Studio, μ Vision, L ^A T _E X Operating System: Mac OS X, Linux, Windows, μ C/OS	