Yihong Chen

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Education

2013
Computer Science, *University at Buffalo*, PhD.
Major GPA: 3.52

2009
2011
Software Engineering, *Beijing Institute of Technology*, Master.
Major GPA: 3.29

2004
2008
Electrical Engineering and Automation, *North China Institute of Science and Technology*, Bachelor.
Major GPA: 3.00

Project & Research Experience

2014
Project of Introduction to Operating Systems.
– Synchronization Primitives and Problems
– System Calls and Process Support
– Virtual Memory Management
– Create own script to improve efficiency of building, test and debugging

2013
2014
Project of Machine Learning and Advanced Machine Learning.
– Implement Linear Regression on web search ranking data
– Implement Logistic Regression and Neural Network on handwriting digits
– Study Bayesian networks, Markov networks and Deep Learning
on large handwriting data set (more than 10GB)

2011
Studying the Topic of Extracting Attributes and Their Values of Domain Objects, *Research Proposal for Master degree.*
– Collect the seed of attribute and value pair by the semi-structured data from encyclopedia websites
– Construct the described models of object attributes and object attribute values
– Train classifier by the sentences which contains the expression of attribute or attribute value
– Extract the attribute or attribute value from the candidate sentences by trained classifier
– Sources of Data: 3500 Articles concerning computer, military and archaeology

2010
Theory and Method to Ontology Learning Field about Chinese Text.
Funded by National Natural Science Foundation of China

– Took over projects: tag the time expressions; standardize the time expressions
– Obtained and marked data, in charge of the maintenance and optimization work
– Designed and implement a web platform to demonstrate all projects of group online
The platform was developed by me and my collaborator and the projects were implemented by different languages.

2009
2011
Lab Work.
– Held discussion meeting about technical details in Lab
– Gave advice to students involved in thesis proposals
– Organized students to perform thesis defense

Programming Skills

Languages

C	Implement all Havard OS/161 assignments	Shell	Love command line tools, my github shell repository
Java	Wrote 7 entire Java projects and several open source packages	Lisp	Very familiar with Emacs Lisp and Common Lisp
Regular Expression	Use regex fluently in various languages	JavaScript	Familiar with javascript, wrote more than 5 bookmarklets
Other	Lua, wrote plugins for Goolge Pinyin PHP, customize Wordpress Matlab, Machine Learning projects LaTeX in daily usage		

Tools

Editors	Vim and Emacs in daily usage Familiar with Sublime, Atom	Shell	tmux, sed, ag and awk in daily usage

Languages

Chinese	**Native**	*Mother Tongue*
English	**Fluent**	*Daily practice, conferences given in English*