

GUOHUA WU

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EDUCATION

Beijing University of Posts and Telecommunications	Computer Science and Technology	M.S.E	GPA: 87.73/100 (Rank: 4/400)	Sept. 2013 – Expected Mar. 2016
Beijing University of Posts and Telecommunications	Intelligence Science and Technology	B.E	GPA: 89.64/100 (Rank: 1/32)	Sept. 2009 – Jun. 2013

TECHNICAL SKILLS

Languages:	Python, C, C++ and Java
Research Fields:	Natural Language Processing, Dialogue Management and Machine Learning
Software:	Linux, Vim, Awk, Sed, Latex, IntelliJ Idea, Eclipse, Git and MySQL

INTERSHIP EXPERIENCE

Alibaba Group, Alimama Display Advertising, <i>Algorithm Engineer Intern</i>	May 2015 – Sept. 2015
<ul style="list-style-type: none">Implemented advertiser-based collaborative filtering algorithm to generate black-box crowd packages for advertisers.Developed a tool to evaluate offline the performance of advertising on black-box crowd packages.Maked frequently-used Ad performance reports generation process 30 times faster by developing a middle table.Developed targeting performance reports of various dimensions for targeting performance monitor.	
Nuance, <i>Natural Language Processing Engineer Intern</i>	Mar. 2014 – Jul. 2014
<ul style="list-style-type: none">Developed a Natural Language Understanding (NLU) module for in-car voice assistant.Generated spoken utterances for 12 domains by filling dictionary into corresponding templates' slots, and extracted features from these utterances to produce training data for Maxent classifier and CRF-based slot extractor.Developed a Rule-based NLU for domains whose spoken utterances are relatively limited.	
Baidu, Wenku, <i>Software Development Engineer in Test Intern</i>	Dec. 2012 – Apr. 2013
<ul style="list-style-type: none">Tested back-end interfaces for Wenku (wenku.baidu.com) through automating test.Created test cases from the functional requirements, reported bug and wrote test report.	

PROJECTS

SIGHAN Chinese Word Segmentation (Team Size: 2)	Core Developer	May 2014 – Aug. 2014
<ul style="list-style-type: none">Presented a CRF-based Chinese segmentation system integrating supervised, unsupervised (Accessor Variety) and lexical features, and refined segmentation result with new word detection.Completed segmentation system development and feature extraction, and <i>improved 2%</i> performance (F1 score) by integrating unsupervised and lexical features.<i>Our system ranked first in the 3rd CIPS-SIGHAN bakeoff with precision 0.968, recall 0.978 and F1 score 0.972.</i>		
POMDP-based Spoken Dialog System (Team Size: 1)	Core Developer	Sept. 2014 – Present
<ul style="list-style-type: none">Implemented a web-based spoken dialog system, and casted spoken dialog system as a Partially observable Markov decision process (POMDP). Estimated POMDP's parameters from dialog corpus and solved POMDP to generate policy. Consequently, interacted with user according to POMDP's policy instead of manual rules.Implemented POMDP-based dialogue management module and natural language understanding module based on Maximum Entropy and CRF. and speech synthesis.		
Samsung Chinese Material Crawling (Team Size: 3)	Core Developer	Sept. 2013 – Dec. 2013
<ul style="list-style-type: none">Implemented a web crawler supporting main textual content extracting and duplicate paragraph removal.		
Dialogue System in Given Field (Team Size: 3)	Core Developer	Mar. 2012 – Jul. 2012
<ul style="list-style-type: none">Provided Android LBS applications to recommend restaurants through human-machine conversation.Extracted restaurants' information, designed information retrieval interfaces and implemented Android application.<i>Awarded the Second Prize of the Chinese University Students Intelligence Design Contest, 2012.</i>		

AWARDS

Vmware Enterprise Scholarship (ranked 4 th out of over 400 students)	Sept. 2013 – Sept. 2014
Changfei Enterprise Scholarship (ranked 1 st in major)	Sept. 2011 – Sept. 2012
National Scholarship for Encouragement (ranked 1 st in major)	Sept. 2010 – Sept. 2011
National Scholarship (ranked 1 st in major)	Sept. 2009 – Sept. 2010
First prize in BUPT's Innovation Award Contest	Jun. 2012
Second prize in Beijing Undergraduate Electronic Design Contest	Jun. 2012