

## Haitang Hu

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<b>Summary</b>	<ul style="list-style-type: none"><li>• Over 3 years of full time engineering experience in Software development and management, System Infrastructure and Data Manipulation.</li><li>• Solid understanding of Machine Learning algorithms and implementation.</li><li>• Domain specific knowledge and project experience in Machine Translation and Information Extraction.</li><li>• Outstanding adaptive performance, problem solving skills and ability to learn.</li></ul>		
<b>Education</b>	<b>M.S.E.</b> , Johns Hopkins University, Baltimore, MD	2014-2016(expected)	Computer Science
	<b>B.E.</b> , Tongji University, Shanghai	2007-2011	Computer Science
<b>Experience</b>	<b>System Administrator</b> , Johns Hopkins University, Baltimore, MD	2014-2015	<ul style="list-style-type: none"><li>• Designed, implemented, and reliably maintained IDIES database, web services and the infrastructure required to run such services, provided design advice for projects that utilize these services.</li><li>• Deployed sensor server to gather and analyze massive temperature data from different locations in server room.</li></ul>
	<b>System Engineer</b> , NS Solutions Co., Ltd., Shanghai	2011-2014	<ul style="list-style-type: none"><li>• Designed, structured, implemented and maintained web application using <i>J2EE</i> and <i>MySQL</i>.</li><li>• Conducted complete <i>ETL</i> processes into oracle based data warehouse from India, Brazil, Japan and Korea branches.</li><li>• Understood, analyzed and optimized business flows for trading companies.</li><li>• Led research on web-service to refactor existing applications.</li></ul>
	<b>Business Analyst Intern</b> , Hewlett-Packard Co., Ltd, Shanghai	2011	<ul style="list-style-type: none"><li>• Created reporting tools to raise productivity about 10%.</li><li>• Generated reports from SAP&amp;BW systems and analyzed exception data.</li><li>• Consolidated more than 350 kinds of reports from India, U.S. and Thai to China reporting center.</li></ul>
	<b>Software Engineer Intern</b> , AltiGen Communications Inc., Shanghai	2010	<ul style="list-style-type: none"><li>• Fixed bugs and enhanced functionalities for client application using <i>C#</i>.</li><li>• Designed and developed integrated outlook add-on for windows client.</li></ul>
	<b>Smart statistics</b> , IDIES@JHU, Baltimore, MD	2015	<ul style="list-style-type: none"><li>• Understood smart counter meaning and smartools principle, scripted wrap-up python program to gather smart data through ssh.</li><li>• Constructed web page to inform data, and varies <i>SQL</i> query to analyzing diversity, predicting failures, etc.</li></ul>
<b>Selected Projects</b>			

- RNN Encoder**, Johns Hopkins University, Baltimore, MD 2015
- Combined *LSTM*, *word embedding* and *recurrent neural network* to encode and decode language pairs with *Theano*.
  - Rescored extracted phrase table to produce a better translation model score.
- Fenonic Acoustic Models**, Johns Hopkins University, Baltimore, MD 2015
- Implemented composite *Hidden Markov Model* to identify acoustic base forms.
  - Employed contrastive mechanism to gain better generative model.
- Image Classification**, Johns Hopkins University, Baltimore, MD 2014
- Developed parallel *PCA* using *blockRDD* on *Spark* and *Hadoop*.
  - Classified compressed low dimensional image representation through *SVM* with *Gaussian Kernel*.
- Enterprise Get Things Done**, Johns Hopkins University, Baltimore, MD 2014
- Brainstormed, discussed and selected functionality with team members.
  - Designed architecture and implemented both server application and android application using *Java*, *ORMLite* and *MySQL*.
- Shiseido Global ETL**, NS Solutions Co., Ltd., Shanghai 2012
- Co-designed and constructed data warehouse and data marts.
  - Implemented *ETL* scripts for various data types from different branches using *Asteria* and *PL/SQL procedures*.
- Expense Managing System**, NS Solutions Co., Ltd., Shanghai 2011-2014
- Developed a web based system that managing expenses for more than 13 branches using *Java*, *Spring* and *MySQL*.
  - Understood new demand, proposed best practice solution and led development.

**Hackathon Wins 3rd Place**, Kaiser Permanente and Microsoft Code-a-thon, Washington D.C. 2015

- Mainly developed a minimum viable group therapy application on iOS.
- Utilized Azure interface with iOS Application in merely one day.

**Skills**

<u>Programming:</u>	Java, Python, C++
<u>Operating System:</u>	Ubuntu, RHEL, OS X, Windows
<u>Database:</u>	Oracle Database (OCP), MySQL, SQL Server
<u>Machine Learning:</u>	Machine Translation, Information Extraction
<u>Language:</u>	English, Chinese, Japanese