

Haitang Hu

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<http://hthu.me>

Summary	<ul style="list-style-type: none">• Over 3 years of full time engineering experience in Software development and management, Business Analysis and Data Manipulation.• Solid understanding of Machine Learning algorithms and implementation.• Domain specific knowledge and project experience in Machine Translation and Information Extraction.• Outstanding adaptive performance, problem solving skills and ability to learn.	
Education	M.S.E., Johns Hopkins University, Baltimore, MD Computer Science	2014-2016(expected)
	B.E, Tongji University, Shanghai Computer Science	2007-2011
Experience	System Administrator , Johns Hopkins University, Baltimore, MD	2014-2015
	<ul style="list-style-type: none">• 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.• Deployed sensor server to gather and analyze massive temperature data from different locations in server room.	
	System Engineer , NS Solutions Co., Ltd., Shanghai	2011-2014
	<ul style="list-style-type: none">• Designed, structured, implemented and maintained web application using <i>J2EE</i> and <i>MySQL</i>.• Conducted complete <i>ETL</i> processes into oracle based data warehouse from India, Brazil, Japan and Korea branches.• Understood, analyzed and optimized business flows for trading companies.• Led research on web-service to refactor existing applications.	
	Business Analyst Intern , Hewlett-Packard Co., Ltd, Shanghai	2011
Selected Projects	<ul style="list-style-type: none">• Created reporting tools to raise productivity about 10%.• Generated reports from SAP&BW systems and analyzed exception data.• Consolidated more than 350 kinds of reports from India, U.S. and Thai to China reporting center.	
	Software Engineer Intern , AltiGen Communications Inc., Shanghai	2010
	<ul style="list-style-type: none">• Fixed bugs and enhanced functionalities for client application using <i>C#</i>.• Designed and developed integrated outlook add-on for client.	
	RNN Encoder , Johns Hopkins University, Baltimore, MD	2015
	<ul style="list-style-type: none">• Combined <i>LSTM</i>, <i>word embedding</i> and <i>recurrent neural network</i> to encode and decode language pairs with <i>Theano</i>.• Rescored extracted phrase table to produce a better translation model score.	
	Fenonic Acoustic Models , Johns Hopkins University, Baltimore, MD	2015
	<ul style="list-style-type: none">• Implemented composite <i>Hidden Markov Model</i> 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 customers' expenses using *Java*, *Spring* and *MySQL*.
- Understood customer's new demand, proposed best 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>	2005+
<u>Language:</u>	Machine Translation, Information Extraction
	English, Chinese, Japanese