

Ze-Yuan “Zack” Hu

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EDUCATION

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|---|--------------------|-----------------------------|
| University of Texas | Austin, TX | Sept 2017 - May 2019 |
| <ul style="list-style-type: none">• M.S. in Computer Science. (GPA: 4.00/4.00)• Coursework: Human Computation, Structured Models in NLP, Machine Learning, Natural Language Processing, Distributed Systems, Semantics | | |
| University of Wisconsin | Madison, WI | Sept 2010 - Dec 2014 |
| <ul style="list-style-type: none">• B.A. in Computer Science. (GPA: 3.74/4.00)• B.A. in Economics with Honors. (GPA: 3.85/4.00)• B.A. in Mathematics. (GPA: 3.81/4.00)• Recipient of 2013 Honors Summer Sophomore Research Apprenticeship• Recipient of 2012 Meek Bishop Scholarship in Economics, <i>top 2 out of 500 economics major students</i> | | |

WORK EXPERIENCE

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| Software Engineer | IBM | August 2015 – August 2017 |
| DB2 LUW federation team | | |
| <ul style="list-style-type: none">• Constructed <u>Hive</u> and <u>Impala</u> wrappers with <u>C++</u> and <u>Java</u> to support federation database between traditional RDBMS and Hadoop-based data warehouse solution• Created automated setup tools with <u>Shell</u> that reduce product configuration time by 75%• Enhanced server option optimization tools using <u>C</u> to reduce federation database performance tuning time by 90 % and enable the capability of tuning the product against Hive, Impala, and Spark• Resolved over 20 defects, including a severe memory leak issue that impacted a \$1.6 million deal. <i>Awarded IBM Manager's Choice Award 2016</i> | | |
| Research Assistant | UW-Madison | September 2012 – May 2013 |
| <ul style="list-style-type: none">• Implemented SVM using <u>Python</u> to examine the impact of Feedback on children's learning outcomes• Examined the statistical correlation between fMRI data and DTI data in measuring the brain activity of children during their learning process with <u>Python</u> | | |

PROJECTS

- **Identifier Inference through Neural Network** (2017), built N-gram and Neural Network language models using tensorflow to study the *Identifier naming convention* problem
- **Exploring Stereotypes and Biased Data with the Crowd** (2017), examined the behavior of crowd on Amazon Mechanical Turk to help with the bias detection in datasets for machine learning tasks
- **Shift-Reduce Parsing** (2017), built a shift-reduce parser from scratch using both a greedy model and a global model with beam search in Python
- **Sequential CRF for NER** (2017), implemented a system that uses HMM model for POS tagging and CRF model for NER in Python

LANGUAGES AND TECHNOLOGIES

- C++; C; Java; Shell; Python; SQL; MATLAB; R;
- DB2; Eclipse; ClearCase; *nix; Emacs; Vi; Hadoop; Hive; Impala; Sqoop2;