

Ze-Yuan “Zack” Hu

Homepage: <http://zhu45.org/>
Email: iamzeyuanhu@utexas.edu

EDUCATION

- | | | |
|---|--------------------|-----------------------------|
| 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: Distributed Systems, Operating System, Human Computation, Structured Models in NLP, Machine Learning, Natural Language Processing, 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

- | | | |
|---|-------------------|----------------------------------|
| Software Engineer
Db2 LUW federation team | IBM | August 2015 – August 2017 |
| <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> | | |

SELECTED PROJECTS

- **HyperPebblesDB** (2018), a Key-Value store that is part of LevelDB family with focus on reducing write amplification. Written in C++
- **Distributed Key-Value Store** (2018), built a distributed Key-Value store with Python that uses eventually consistency model with two session guarantees: *Read Your Writes* and *Monotonic Reads*
- **Identifier Inference through Neural Network** (2017), constructed N-gram and Neural language models using tensorflow to study the *Identifier naming convention* problem
- **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

- **Languages:** C++; C; Java; Shell; Python; SQL; MATLAB
- **Software:** Db2; Tensorflow; Keras; Git; ClearCase; Hive; Impala; Maven; Hadoop