Ze-Yuan "Zack" Hu

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EDUCATION

University of Texas

Austin, TX

Sept 2017 - Present

• M.S. in Computer Science. (GPA: -/4.00)

University of Wisconsin

Madison, WI

Sept 2010 - Dec 2014

- 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, top 2 out of 500 economics major students

WORK EXPERIENCE

Software Engineer

IBM

August 2015 - August 2017

DB2 LUW federation team

- Construct Hive & Impala wrappers to support federation database between traditional RDBMS and Hadoopbased data warehouse solution
- \bullet Create automated setup tools that reduce product configuration time by 75%
- \bullet Enhance server option optimization tools to reduce federation database performance tuning time by 90 % and enable the capability of tuning the product against Hive, Impala, and Spark
- Resolve over 20 defects, including a severe memory leak issue that impacted a \$1.6 million deal. Awarded IBM Manager's Choice Award 2016

Research Assistant

UW-Madison

May 2013 - April 2014

 \bullet Applied Spatial Gaussian Process & Dirichlet Process on fMRI data and improved power of testing on predicting Dementia based upon pixel value of the scan by 5 %

Research Assistant

UW-Madison

September 2012 - May 2013

- Used Support Vector Machine technique 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
- Created a data extraction & formatting toolkit in Python that can finish the processing of over 600 MB experimental data within 10 seconds

PROJECT

- Neural Networks for Sentiment Analysis (2017), feedforward neural network and convolutional neural network for the sentiment analysis
- Shift-Reduce Parsing (2017), a shift-reduce parser using both a greedy model and a global model with beam search
- Sequential CRF for NER (2017), a system that uses HMM model for POS tagging and CRF model for NER
- Watson Introspector (2016), a cognitive tool built in Python on IBM Bluemix for understanding software, answering questions, and interacting with software architecture and data flows in 3D. Awarded Second Prize in IBM China Development Laboratory Hackathon.
- OptiTimal (2013), an android application that allows user to log their time usage and generate a simple statistical report that characterizes their time management style.
- Checker (2012), an AI engine developed in Java for checker game with alpha-beta pruning search algorithm, depth-first iterative deepening method.

TEACHING

• M408K Differential Calculus (Fall 2017, UT Austin) https://www.ma.utexas.edu/users/pmorales/syllabus/syllabus.php?unique=53780 Teaching Assitant

SPECIALIZED SKILLS

- Languages: C++; C; Java; Shell; Python; SQL; MATLAB; R; STATA
- Software: DB2; Eclipse; ClearCase; *nix; Emacs; Vi; Maven; Hadoop; Hive; Impala; Sqoop2; Spark
- Coursework: Machine Learning, Structured Models for NLP, Human Computation & Crowdsourcing