

# Li “Harry” Zhang

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## Education

**University of Michigan**  
Graduation: Apr 2018

B.S.E., Major in Computer Science  
Minor in Linguistics  
Minor in International Engineering  
Overall GPA: 3.817, Major GPA: 3.750

## Employment

### Summer Analyst

**Goldman Sachs**

May 2017 – Aug 2017

- Collect analytics and creating visualization on GS App Store's usage data.
  - Improve GS App Store user experience.
  - Curate app recommendations to users based on data analysis.
- ### Instructional Aide
- Programming and Intro Data Structures (EECS 280)*  
**Michigan Engineering**  
Sep 2016 – April 2017
- Lead a weekly laboratory and supervise more than 30 students working on hand-on coding exercise
  - Host weekly Office Hours to answer more than 20 students' course-related questions and debug their codes
  - Prepare for and test projects and exams to ensure code integrity and problem clarity
- ### Tutor
- Science Learning Center*  
**University of Michigan**  
Sep 2016 – Dec 2016
- Hosted weekly walk-in tutoring for a basic chemistry class
  - Recommended study methods through students' homework
  - Prepared for review materials to help students prepare for exams

## Projects

### Researcher of Natural Language Processing

*Computational Linguistics and Information Retrieval (CLAIR) Group*

**Michigan Engineering**

Sep 2015 – Present

#### IBM Sapphire project: a dialogue system for academic advising

- Built a named entity resolver using supervised learning that detects variables in the training data and replaces them with corresponding placeholders with an accuracy near 90%
- Wrote over 50 semantically distinct and meaningful advising questions and their corresponding SQL as training data
- Canonicalized the "Advising" dataset homologous to the ATIS and GeoQuery datasets, containing more than 300 entries in the academic advising domain

#### New Yorker Cartoon project: a text clustering system for captions

- Rewrote several perl scripts as python scripts, replacing deprecated method with ones in the state-of-the-art machine learning libraries such as Scikit-Learn.
- Stored metadata such as TF/IDF values as pickleDB instead of plain text.
- Experimented with neural networks such as Word2vec and Skip-Thought to compare performance in several clustering algorithms

## Honors

University Honors of all semesters, University of Michigan  
Dean's Honor List of all semesters, Michigan Engineering  
James B. Angell Scholar, University of Michigan

## Skills & Courses

### Professional Skills

- Programming: C++, Python, SQL, Java, Matlab, HTML, C#, Javascript...
- Languages: Chinese (native), English (fluent), French (adept)

### Courses

Information Retrieval and Web Search, Computer Security, Database Management Systems...