

# Shiyu Zhao

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**Education**      **California Institute of Technology**      Sep 2010 - Jun 2013 (Expected)  
Major: Computer Science;    GPA: 4.3/4.0 in major, 4.2/4.0 overall

**Experience**      **Software Engineering Intern**      Jun 2012 - Sep 2012  
LinkedIn Corporation, Mountain View, CA

- Implemented a new type of LinkedIn premium ad - sponsored “Companies You May Want To Follow”, working from frontend web-dev to backend database
- Fixed security holes that allow Javascript code injection into the ad rendering process

**Researcher and Programmer**      Apr 2012 - Jun 2012  
Predicting Congressional Swing Voters Project, Pasadena, CA

- Devised and implemented a Bayesian-network-based algorithm to predict the probability of each congressman approving a bill given the bill and the past voting history
- Analyzed the network structure of the Congress and implemented an algorithm to identify swing blocs crucial for a given bill using Restricted Boltzmann Machines

**Richter Scholar**      Jun 2011 - Sep 2011  
Caltech Summer Undergraduate Research Program, Pasadena, CA

- Implemented a crowdsourcing platform as a web application to analyze data from NO $\nu$ A particle physics experiment at Fermilab
- Designed a filtering algorithm to identify useful data from NO $\nu$ A database and to boost the efficiency of the crowdsourcing scheme

**Teaching**      **Teaching Assistant**, California Institute of Technology, Pasadena, CA  
Held office hours and lab sessions, graded homework and exams, and helped organize classes for the following courses:

- CS21: Decidability and Tractability      Jan 2012 - Mar 2012
- CS9: Introduction to Computer Science Research      Sep 2011 - Dec 2011
- CS1: Introduction to Computer Programming      Sep 2011 - Dec 2011

**Academic Honors**      First Prize, Chinese National Applied Physics Competition      May 2009  
Bronze Medal, Hope Cup Chinese National Mathematics Competition      Jun 2008  
Second Prize, Chinese National Physics Competition      Nov 2008  
Third Prize, Chinese National Olympiad Informatics Competition  
in Zhejiang Province      Dec 2007

**Skills**      **Programming Languages**  
Python, Java, C, C++, Matlab, Scheme, Pascal

**Languages**  
English (Fluent), Mandarin Chinese (Native), German (Intermediate)