

# Jason Sihua Zhao

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Website: <http://www.jszhao.com>

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## Work Experience / Skills

### Programming Languages

- Java
- ASP. Net / C#
- Javascript / jQuery
- Python
- Matlab
- C

### Web Development

2012 - 2014

Design and built dynamic websites for school, non-profit organization, etc. See more at [www.jszhao.com](http://www.jszhao.com).

### Research (Volunteer)

2011 - 2014

- **Biomedical Engineering at IUPUI:** Matlab. Helped design cell segmentation and tracking algorithm to better analyze angiogenesis from growth-factor delivering scaffolding.
- **Computational Chemistry at Eli Lilly:** Python. Built an algorithm to compare molecules (anti-histamines) based on fingerprint and molecular descriptor analysis. Siemens Competition Semifinalists.
- **Autonomous Vehicles at Park Tudor:** 2 year research project that concluded in a review paper of the current state-of-the-art and a one and a half hour long presentation.

### IT Intern at Cummins, Inc.

2012

Reviewed and tested Perl application that monitored latency in networks in China and India. Learned about corporate information technologies.

## Leadership

### CyberPatriot

2012 - 2014

A national high school cyber defense competition. Team as captain at the national finals in DC.

- Nationals: 2014
- Semi-Nationals: 2012, 2013

### Cross Country / Track

2010 - 2014

Varsity team captain. Regional qualifier. MVP award. All-Conference. Academic All-Conference. 5k: 17:04

### Orchestra / Renaissance Ensemble / New World Youth Symphony

2011- 2014

Violin for 9 years. Concert master of school orchestra. Renaissance Ensemble leader. 1<sup>st</sup> Violin in New World. National orchestra award. ISSMA State Gold.

## Major Awards / Recognition

### National Merit Finalist

2013, 2014

### Siemens Competition National Semi-finalist

2014

### Purdue University Presidential Scholarship

2014

### National AP Scholar / AP Scholar with Distinction

2012 - 2014

### Cum Laude Society Inductee

2014

## Academics

### Purdue University

2014 - 2018

Expected graduation: 2018. BS in CS from College of Science. Honors College. Presidential Scholarship.

### Park Tudor School

2014

Graduated Cum Laude. Global Scholar.