

# Zach Kirsch

## Contact

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## Languages

Python  
C & C++  
Bash  
Javascript  
HTML5 & CSS3

## Technologies

Django  
SQL  
MongoDB  
jQuery  
Apache Spark

## Tools

UNIX  
Git

## Education

### Tufts University, School of Engineering

Bachelor of Science in Computer Science  
Bachelor of Arts in Mathematics

Medford, MA  
*Expected May 2018*

### IES Abroad Milan

Study Italian, Art History, Communications, and Photography

Milan, Italy  
*Spring 2017*

## Experience

### Microsoft

*Software Engineering Intern*

Bellevue, WA  
*Summer 2016*

- Implemented graph database and querying system for Azure Customer Insights with three other interns
- Created and maintained virtual network with Spark, HBase and Titan clusters for distributed computing

### Tufts University

*Teaching Assistant: Introduction to Computer Science*

Medford, MA  
*3 semesters*

- Selected as Teaching Fellow to supervise a team of 35 TA's and to help administrate the course

*Teaching Assistant: Computation Theory*

*1 semester*

### Victory Briefs

*Head of Web Development*

Chicago, IL  
*2014 – February 2017*

- Designed and maintained website and online store
- Created backend and frontend of a lecture signup system for summer debate camp

## Projects

### vBriefly Debate Rankings – [www.vbriefly.com/rankings](http://www.vbriefly.com/rankings)

*2014 – February 2017*

- Created and maintain system for ranking thousands of debate teams in the US with a Glicko-2 methodology
- Software acquired by Victory Briefs in 2014

### Nickel and Dine – [www.zachkirsch.com/nickelanddine](http://www.zachkirsch.com/nickelanddine)

*2015*

- Developed, with a small team, a cost-minimizing service for food delivery to Tufts students

### DebateHelper – [www.debatehelper.com](http://www.debatehelper.com)

*2014*

- Designed a Microsoft Word template using VBA 7 that is used by over 1000 high school debaters nationwide to collaboratively organize and consolidate research

## Activities

### Tufts Engineers Without Borders

*Senior Treasurer*

*April 2015 – Present*

### Comune di Milano

*Spring 2017*

- Volunteer in Milan's Office for Refugee Assistance
- Assist with introductory English classes

### Peru Health Outreach Project

*Summer 2013*

- Volunteered on a medical mission trip in Peruvian villages