

# ALAN JAFFE

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## EDUCATION

### Carnegie Mellon University

BS Computer Science *GPA: 4.0*

Minors: Machine Learning, Business Administration, Robotics

Pittsburgh, PA  
Graduation: May 2018

### Solon High School

Honors diploma *GPA: 4.59*

Graduated in top 5% of the class with perfect SAT score

Solon, OH  
Graduation: May 2014

## EXPERIENCE

### Jump Trading, Software Engineering Intern

Improved production trading platform with additional features (C++, Python)

Chicago, IL  
June - August 2017

### Google, Software Engineering Intern

Developed framework to improve online-to-offline conversion tracking (C++, Java)

Mountain View, CA  
May - August 2016

### Carnegie Mellon University, Teaching Assistant

Led a recitation and taught principles of theoretical computer science (15-251)

Pittsburgh, PA  
Fall semester 2015

### Knewton, Software Engineering Intern

Created load testing tool for improving adaptive learning software (Python)

New York, NY  
June - August 2015

### Snap-on Business Solutions, Software Engineering Intern

Developed software to track database dependencies (Java, SQL, AJAX)

Richfield, OH  
June - August 2013

### TMW Systems, Software Engineering Intern

Improved software to manage code branches and automate emails (C#, SQL)

Mayfield Heights, OH  
June - August 2012

## PUBLICATIONS

Lacomis, J., Jaffe, A., Schwartz, E. J., Le Goues, C., and Vasilescu, B. (2018). "Statistical Machine Translation is a Natural Fit for Automatic Identifier Renaming in Software Source Code." *Statistical Modeling of Natural Software Corpora*, AAAI.

Jaffe, A. (2017). "Generating Image Descriptions using Multilingual Data." *Proceedings of the Second Conference on Machine Translation*.

Jaffe, A. (2017). "Suggesting Meaningful Variable Names for Decompiled Code: A Machine Translation Approach." *Proceedings of the 2017 11th Joint Meeting on Foundations of Software Engineering*, ACM.

## SKILLS

Languages: C++, Python, JavaScript, Java, R, C#, OCaml, Lua, SQL, HTML, CSS, L<sup>A</sup>T<sub>E</sub>X

Spoken Languages: English (native), French (intermediate)

## ACTIVITIES

### Mock Trial at Carnegie Mellon University

President 2016-2018, Team Captain 2015-2018, Outstanding Attorney Award 2017

### Flight Odyssey

*Lua, Corona SDK, iPhone, Android*

Independently developed an interactive physics-based game downloaded over 3000 times

### Sighting

*Flask*

Crowdsourced alert app won "Most Impactful Hack" and "Best Use of AWS" at Steel Hacks hackathon

### Science Olympiad

*JavaScript, C++, Arduino*

Member of 1st Place National Championship Team (2010 - 2013)

Developed cloud-based tournament software successfully used to score hundreds of students

## AWARDS

FSE Student Research Competition, 3rd Place: 2017  
U.S. Presidential Scholar Candidate: 2014  
Bausch and Lomb Honorary Science Award: 2013  
One of 18 students worldwide to answer all questions correctly on the AP Computer Science test: 2012

National Merit Finalist: 2014  
Parker Hannifin Engineering Scholarship: 2014  
National AP Scholar Award: 2013  
One of 33 students worldwide to answer all questions correctly on the AP Microeconomics test: 2013