Alan Jaffe

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Education

Carnegie Mellon University — Pittsburgh, PA
BS Computer Science *GPA: 4.0* — Graduated May 2018
Minors: Machine Learning, Business Administration, Robotics

Solon High School — Solon, OH
Honors diploma *GPA: 4.59* — Graduated May 2014

Experience

Jump Trading, *Software Engineering Intern* — Chicago, IL
Improved production trading platform with additional features (C++, Python) — June - August 2017

Google, *Software Engineering Intern* — Mountain View, CA
Developed framework to improve online-to-offline conversion tracking (C++, Java) — May - August 2016

Carnegie Mellon University, *Teaching Assistant* — Pittsburgh, PA
Led a recitation and taught principles of theoretical computer science (15-251) — Fall semester 2015

Knewton, *Software Engineering Intern* — New York, NY
Created load testing tool for improving adaptive learning software (Python) — June - August 2015

Snap-on Business Solutions, *Software Engineering Intern* — Richfield, OH
Developed software to track database dependencies (Java, SQL, AJAX) — June - August 2013

TMW Systems, *Software Engineering Intern* — Mayfield Heights, OH
Improved software to manage code branches and automate emails (C#, SQL) — June - August 2012

Publications

Jaffe, A., Lacomis J., Schwartz, E. J., Le Gouesc, C., and Vasilescu, B. (2018). "Meaningful Variable Names for Decompiled Code: A Machine Translation Approach." *International Conference on Program Comprehension*, IEEE/ACM.

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.*

Skills

Languages: C++, Python, JavaScript, Java, R, C#, OCaml, Lua, SQL, HTML, CSS, LaTeX
Spoken Languages: English (native), French (intermediate)

Activities

Mock Trial at Carnegie Mellon University
President 2016-2018, Team Captain 2015-2018, Outstanding Attorney Award 2017

Budget Bot — *Python, JavaScript*
Pro-active budget chatbot won first place at 2018 Tartan Finnovation ideathon

Sighting — *Flask*
Crowdsourced alert app won "Most Impactful Hack" and "Best Use of AWS" at 2015 Steel Hacks hackathon

Flight Odyssey — *Lua, Corona SDK, iPhone, Android*
Independently developed an interactive physics-based game downloaded over 3000 times

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