

ALAN JAFFE

U.S. Citizen · alan.p.jaffe@gmail.com · 440.715.0531 · apjaffe.github.io

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^AT_EX

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

Pro-active budget chatbot won first place at 2018 Tartan Finnovation ideathon

Python, JavaScript

Sighting

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

Flask

Flight Odyssey

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

Lua, Corona SDK, iPhone, Android

Science Olympiad

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

JavaScript, C++, Arduino

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