Samuel Weiss

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Education

Tufts University, Medford, MA - Class of 2017
Major: B.S. in Computer Science from the Tufts School of Engineering
Relevant Coursework
Data Structures, Machine Structure and Programming, Algorithm Design, Discrete Mathematics, Game Development, Computer Graphics, Computational Theory, Computer Models in Cognitive Science, Multi and Single Variable Calculus
Academic Honors

- National Merit Scholar - Commended
- AP Scholar With Distinction
- National AP Scholar

Skills, Languages, and Technologies

Python, C++, C, Java, Javascript, Node, Mongo, HTML/CSS, HTTP, Git, SSH, Linux, GNU,

Experience

Sauce Labs, *Core Developer,* Summer 2014

- Built robust features to run across a wide array of different operating systems and technologies
- Created a powerful toolset to mount and manipulate virtual machine images in Python
- Automated browser deployment and updating across most operating systems
- Worked in a support team to resolve bugs and create new features

Invenshure(Imbio), *Web development and Algorithm design,* Summer 2013

- Redesigned website to be compatible in mobile, desktop, and legacy browsers
- Implemented full lung lobe segmentation algorithm using Python
- Analyzed, tested, and modified secure file transfer of sensitive medical images
- Modified existing uploader to increase efficiency and allow for uploads across all major browsers

University of Minnesota, Center for Magnetic Resonance Research, *Research Assistant,* Summer 2012

- Designed and implemented a pixelwise shape smoothing algorithm in Java
- Designed and implemented a shape recognition algorithm in Java
- Created a framework for Java based algorithm design of MRI images
- Automated subcutaneous fat volume calculation in rats from MRI images

Activities

Swimming - 10 years of club swimming, 6 years in the High School League, and 2 years of Tufts Swimming
State and Local Science Fairs
2012 Fair Project: Granular Segregation Patterns in a Rotating Drum
Awards included: Yale Science and Engineering Association Most Outstanding Eleventh Grade Exhibit, United States Army Certificate of Achievement, AAAS Outstanding Science Project Exhibit, Third Grand Award, ASM Materials Most Outstanding Exhibit
2010 Fair Project: Quantitative Analysis of Wind and Solar Resources in Minnesota.
Awards included: Ecolab Green Award, High School Top Scoring Team, United States Army Award