Joshua Drubin

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EDUCATION

Bachelor of Science, Computer Engineering
University of Maryland, College Park, expected May 2016
Concentration: Computer Engineering
GPA: 3.2

LANGUAGES / FRAMEWORKS

Java, C, C#, Python, Verilog, Arduino-C, Ruby, MATLAB, Android, HTML/CSS, Javascript, Linux command line, Git, ROS

EXPERIENCE

Independent Research for Credit January 2016 - present
University of Maryland, College Park

- Developing working methods for using audio samples as a means of object classification for further use with the Greencan (see below), involving the application of in depth signal processing and machine learning concepts.

Software Engineering Intern at ZocDoc Summer 2015
New York, New York

- Developed full stack application allowing developers to independently modify and publish microservices in production

Paid Undergraduate Researcher December 2012 - September 2013
National Geographic Society, D.C. - University of Maryland, College Park

- Developed hardware and software for a prototype animal-borne wireless network and video camera called the Crittercam.
- Independently wrote 3000 lines of code that was later used in field deployments
- See news release at http://www.isr.umd.edu/news/news_story.php?id=5964.

EXTRA-CURRICULAR ACTIVITIES

Hackathons 2013 - 2014

- First place winner of MHacks, a 2000+ person undergraduate hackathon for building the GreenCan. See video demonstration and online news article at http://phys.org/news/2013-09-smart-recycle-bin-record-breaking-mhacks.html.
- Won Best Computer Vision Hack at HackTech (CalTech's hackathon).
- Attended HackMIT, Bitcamp, Greylock invite-only Hackfest, and Windward Code Wars

Robotics Spring 2015

- Developed software and design for object acquisition system for the NASA rover competition RASC-AL ROBO-OPS.

RELEVANT COURSEWORK

Computer Science: Data Structures, Operating Systems, Software Engineering

Electrical Engineering: Computer Organization, Digital Computer Design, Computer Laboratory