



ALEXANDER MILLER

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EDUCATION

Tufts University, Medford, MA

www.tufts.edu

School of Arts and Sciences, Class of 2012

Double majoring in *Computer Science* (3.77 GPA) and *Biology* (3.50 GPA)

Cumulative GPA: 3.67 out of 4.0 (Dean's List)

SKILLS

Programming and Programming-Related:

- Experienced with C, C++, Php, HTML5, CSS, Javascript, MySQL, Git, Windows, Linux; familiar with Ruby/Ruby on Rails, Python, Java, Android, Perl, Mac, LDAP

Graphic, Web, and 3D Design:

- Experienced with Adobe Photoshop, Adobe Illustrator, Microsoft Office (Word, PowerPoint, Excel, Outlook); familiar with Adobe Flash, Autodesk Maya

Music Production:

- Experienced with Ableton Live and FL Studio; familiar with Propellerhead Reason

EXPERIENCE

Tufts Systems Group (CEAS), Tufts University, Medford, MA

www.cs.tufts.edu

Web Developer / System Administrator, July 2011 - Ongoing

- Developed, secured, and maintained university websites. Worked on both front and back ends, using a combination of HTML, PHP, CSS, JavaScript, and MySQL. Currently developing a PHP content management system for a generic research site to be used by professors within Tufts' Computer Science department.

Teaching Assistant, Tufts University, Medford, MA

Teaching assistant for COMP15 - Data Structures, Spring Semester 2010

- Responsible for answering questions, assisting with labs and homework, helping students, and holding office hours

Convolve Inc., Armonk, NY

www.convolve.com

Intern, May – Aug. 2008

- Worked with a team to create DeepNote™, a robot that autonomously plays the video game Guitar Hero®
- Designed, constructed and tested the circuit board and other components, as well as programmed the robot using the Parallax language “Spin”
- See www.mechanizedrock.com and www.parallax.com/tabid/710/Default.aspx for background and award recognition information about this project

RESEARCH

Finding Palindromes in DNA Sequences, Tufts University, Medford, MA

Summer 2010

- Worked with Anoop Kumar under the mentorship of Lenore Cowen to write an algorithm that identifies palindromic DNA sequences, and to create a website that simplifies the use of this algorithm for non-expert computer users.

OTHER ACTIVITIES

National MS Walk, Bear Mountain, NY

www.nationalmssociety.org

Team Leader, Spring 2007 and Spring 2008

- Raised over \$2,000
- Recruited team members
- Spread awareness about Multiple Sclerosis (MS)

Tufts Daily, Tufts University, Medford, MA

Political Cartoonist, Spring 2009 - Spring 2010, Spring 2011