

Bradley Tse

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Education

- 2009 – 2013 **Bachelor of Science in Computer Engineering**, *University of Maryland*, College Park.
Overall GPA: 3.65
- 2009 – 2011 **University of Maryland Scholars Program**, Public Leadership.

Experience

- Summer 2012 **Software Engineering Intern**, *Microtel LLC*, Greenbelt, MD.
and Wrote code to help analyze data coming back from the mars rover, Curiosity, or more specifically from
Winter 2012 SAM (Sample Analyst at Mars), one of Curiosity's main analysis tools
- Wrote Python scripts that used Gnuplot to trend data about the temperature, amps, and voltage of the various components of SAM, which were used to help determine the reliability of the data received from SAM
 - Modified pre-existing Python scripts to add more functionality
 - Wrote Bash scripts to help automate tasks
 - Used Tkinter to create a GUI for the trending tools
- Spring 2012 **Lego Robots Instructor**, *The Great Adventure Lab*, Silver Spring, MD.
Used Lego Mindstorms to introduce the basic concepts of programming to children
- 2010 – 2012 **Cashier**, *Bloom Grocery Store*, Burtonsville, MD.

Personal Projects

- Summer 2013 **Easy Pass (early work in progress)**.
An elegant password manager for the Android platform

Non-profit

- 2009-2011 **Vice President**, *Books Across Borders Club*, University of Maryland.
Collected over 3,000 books and school supplies to send to Africa to help promote education and literacy

Computer skills

Proficient	Python, C, Java, Bash, HTML, CSS	Adequate	Ruby, L ^A T _E X, Assembly
Exposure to	PHP, SQL, AJAX, jQuery, Javascript, OCaml	Other	Vim, Wireshark, Gnuplot, Matlab, Pspice, Networks
Platforms	Linux, Android, Windows		

Relevant Coursework

- Fall 2012 **Operating Systems**.
Implemented parts of GeekOS, a Unix-like operating system, including a scheduler, signal handlers, various system calls, process backgrounding and killing, semaphores, paging, and our own file system
- Fall 2012 **Computer Networks**.
Learned all about computer networks including each layer of the OSI model. Also wrote various small programs that implemented TCP and UDP connections
- Fall 2009 **Introduction to Engineering**.
Designed and constructed an autonomous hovercraft with seven other students. Researched, constructed, and reported on the propulsion component