

Bradley Tse

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Education

- 2009 – 2013 **Bachelor of Science in Computer Engineering**, *University of Maryland*, College Park.
Overall GPA: 3.64
- 2009 – 2011 **University of Maryland Scholars Program**, Public Leadership.

Experience

Work

- Summer 2012 **Software Engineering Intern**, *Microtel LLC*, Greenbelt, MD.
and
Winter 2012 Wrote code to help analyze data coming back from the mars rover, Curiosity, or more specifically from 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.
Taught children how to program Lego robots
- Used Lego Mindstorms to introduce the basics of programming to children
 - Lego WeDo, a simpler version of Lego Mindstorms, was also used to introduce the idea of programming to younger children
- 2010 – 2012 **Cashier**, *Bloom Grocery Store*, Burtonsville, MD.

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
- Fall 2010 **Team Member**, *The Art and Science of Philanthropy*, University of Maryland.
Worked with other students to donate \$27,000 to two non-profit organizations

Computer skills

Proficient	Python, C, Java, Bash, HTML, CSS	Adequate	Ruby, Javascript, \LaTeX , OCaml, Assembly (MIPS)
Tools	Vim, Wireshark, Gnuplot, Matlab, Pspice	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 2009 **Introduction to Engineering**.
Designed and constructed an autonomous hovercraft with seven other students. Researched, constructed, and reported on the propulsion component