

William Woodruff

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EDUCATION *The University of Maryland, College Park*, class of 2018.
Majors: Computer Science, Philosophy
The Bronx High School of Science, graduated June 2014 with honors.

SKILLS
Languages: C(++), #, Java, Ruby, Perl, Python, bash, NASM, (G)AWK, and OCaml.
Hardware: ARM boards (Beaglebone, Raspberry Pi), AVR controllers (Arduino).
Frameworks and Libraries: OpenGL, ImageMagick, cURL, .NET, and Xlib/XCB.
Software (development): Inkscape, GIMP, Audacity, Reason, Visual Studio, and Eclipse.
Software (composition): Microsoft Office and LibreOffice suites, L^AT_EX, HTML5.
Operating Systems: Linux, *BSD, Solaris, Darwin (OS X), and Windows.

PROFESSIONAL EXPERIENCE *Software Development Intern* June 2016 – August 2017
Cipher Tech Solutions, Elkridge, Maryland

- Developed programs for forensic analysis.
- Limited additional information available upon request.

Google Summer of Code June 2015 – August 2015
Github (Homebrew) June 2016 – August 2016

- Adapted Homebrew's binary distribution system (bottles) to remove dependencies on Xcode and the CLT, required previously for binary name relocation operations.
- Implemented a Mach-O binary parser and constructor in Ruby to handle dynamic library name relocations as required by Homebrew.

Research Writer December 2014 – April 2016
Dept. of Computer Science, University of Maryland, College Park

- Charged with writing articles and summaries on systems research in the Computer Science department.
- Published on the CS departmental website and in *Shell*, the department's biannual magazine.

Contracted Computer Services and Repair February 2013 – July 2014
Freelance, Manhattan, NY

- Assisted clients in resolving hardware and software issues across Windows, OS X, and Linux.
- Developed scripts and programs for backup, system maintenance, and emergency reporting.

Computer Science Demonstrator 2011 – 2014
The Bronx High School of Science, Bronx, NY

- Demonstrated Bronx Science's programs in Computer Science (AP CS, Robotics, Game Programming) to prospective and admitted students.
- Developed special demo programs for demonstrations, including examples of genetic learning in robots and graphics demonstrations.

Computer Systems Assistant June 2012 – August 2012
M.S 54 - The Booker T. Washington Middle School, Manhattan, NY

- Installed new computer hardware and computer lab equipment, including projectors and smart boards.
- Imaged new machines with OSes, devised group policies, and transferred old student accounts, records, and files to the new systems.

**SERVICE,
HONORS,
EXTRA-
CURRICULARS**

- Member, Homebrew Project (2016 –)
- Member, Maryland Cycling Team (2016 –)
- Member, Maryland Cybersecurity Club (2014 –)
- Contributor to FOSS Projects (brew, linux-man, feh, &c)
- Presidential Scholar, University of Maryland (2014 –)
- Winner, Hackathons:
 - HackBCA 2014 (Top 20)
 - HackUMBC 2014 (First Prize)
 - HackDuke 2014 (IBM Prize)
 - Bitcamp 2015 (Multiple Prizes)
 - Daemon Dash 2015 (Cipher Tech Prize)