

Joshua Matthews

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Education

Rutgers University - School of Arts and Sciences
B.S. in Computer Science
CS GPA: 3.33
Overall GPA: 3.07

New Brunswick, NJ
Class of 2015

Experience

HackNY Engineering Intern

June 2013–August 2013

Bitly
New York, NY

- Created several backend systems and APIs for use in a new enterprise product.
- Created new API endpoints and wrote migrations to begin retiring a set of legacy features.
- Part of the HackNY fellowship program.

Student Systems Programmer

January 2012–Present

Rutgers Open Systems Solutions
New Brunswick, NJ

- Part of a team responsible for building and maintaining RPM packages used throughout a user community of 70,000 faculty, staff and students.
- Write, debug and maintain PHP scripts for web-based applications.
- Write and maintain shell scripts to automate system administration tasks for production servers.
- Assessing and diagnosing system and application issues.

Developer Intern

Winter 2010–Spring 2011

Educational Resource Systems
Red Bank, NJ

- Modified existing flash movies to assist doctors with learning about pharmaceutical products.
- Built XML documents to control the flow of Adobe Flash programs and provide an on-demand glossary.

Projects

Facebook File System

- Utilizing the FUSE libraries, models Facebook Graph API data as a UNIX directory structure, allowing Facebook interaction through basic command line tools.
- Won third place at Facebook Summer of Hack 2013, NY.

Trollnet

- Project utilizing a Raspberry Pi single board computer to set up a WiFi access point.
- Traffic passing through the access point was intercepted and any image URLs were changed to point to a PHP script on an external server. This script would take the original images and insert random pictures from a pre-made set on top of them.
- Utilized squid proxy software to intercept the data.
- Won second place at HackNY Fall 2012.

Stereo Lasers

- Arduino project which projects visualization effects with two different colored lasers.
- Visualization based on a random seed and audio input.
- Won second place at HackRU Spring 2012.

Skills

Programming Languages: Python, Ruby, Javascript, PHP, shell scripting, Java, C
Version Control: Git, Subversion