

Joshua Matthews

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Education

Rutgers University - School of Arts and Sciences
B.S. in Computer Science
CS GPA: 3.5
Overall GPA: 3.125

New Brunswick, NJ
Class of 2015

Experience

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

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.

Order ID

- Arduino project for ordering takeout by scanning an RFID chip.
- The arduino board communicated with the main python program via a serial connection, which placed the order using the order.in API.
- Won Best Hardware Hack at HackNY Spring 2012.

Skills

Programming Languages: shell scripting, PHP, Javascript, Python, Java, C
Operating Systems: Linux, UNIX, Solaris, Microsoft Windows, Mac OS X