

Joshua Matthews

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Education

Rutgers University - School of Arts and Sciences
B.S. in Computer Science
CS GPA: 3.59
Overall GPA: 3.28

New Brunswick, NJ
Class of 2015

Experience

Engineering Intern

May 2014–August 2014

Twilio
San Francisco, CA

- Augmented the internal build tools to run builds in isolated environments, allowing for increased build throughput and eliminating multi-tenancy issues.
- Began development of a new tool to manage the internal rpm repositories when upstream tools proved to be a bottleneck in the development process.
- Migrated several key services from a home-grown legacy configuration system to rpms and Chef.

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 System 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.
- Assess, diagnose, and resolve system and application issues.

Projects

ShellGolf

- Webapp that would ask users to solve challenges using the UNIX shell, and rank solutions based on conciseness.
- Solutions submitted by users were tested inside of Docker containers to guard against malicious code.
- Initially written at MHacks Fall 2013, currently undergoing a rewrite to incorporate recent changes to the Docker API.

Facebook File System

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

Trollnet

- Utilized a Raspberry Pi to set up a WiFi access point.
- Traffic that passed through the access point was intercepted and any image URLs were changed to point to a PHP script which would overlay random pictures on top of the originals.
- Utilized squid proxy software to intercept the data.
- Won second place at HackNY Fall 2012.

Skills

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