

Joshua Matthews

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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 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 key services from a home-grown legacy configuration system to RPMs and Chef.

HackNY Engineering Intern

June 2013–August 2013

Bitly
New York, NY

- Developed backend services to process incoming data as part of a new analytics product.
- Integrated data from a legacy application by adding new API endpoints and writing SQL database migrations, allowing for the eventual retirement of the application
- 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.

Education

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

New Brunswick, NJ
Class of 2015
Overall GPA: 3.28

Projects

ShellGolf

- Presents users with challenges to be solved with shell scripting, and scores the solutions based on conciseness.
- Submitted code is run inside Docker containers for isolation.
- Node.js, MongoDB, Docker, RabbitMQ

Facebook File System

- Models parts of 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.
- C, FUSE

EzPrompt.net

- Allows users to easily generate customized prompts for GNU Bash via a web interface.
- Presents preview of the prompt on black or white backgrounds, and the generated code for the user to place in their config file.
- Javascript, jQuery UI

LinkTheDots

- Shell script for linking configuration files from a git repository into a users home directory.
- Includes support symlinking or copying, extending with custom scripts, submodule support, and automatic updates when the repository is updated.
- Written completely in GNU Bash for maximum compatibility.

Languages and Technologies

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