Ryan S. Brown

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Education

Rochester Institute of Technology Rochester, NY
B.S. Applied Networking and Systems Administration, Minor in Software Engineering *GPA: 3.4*

- **Available Full Time:** May 2013
- **Key Courses:** Engineering of Software Subsystems, Software Testing, Network Services, Network Design and Performance, Advanced Routing & Switching
- **Organizations:** Computer Science House (3 years), Free and Open Source Software @ RIT (2 years)

Experience

Resident Advisor Residence Life
Rochester Institute of Technology *August 2011 - Present*

- Mentored, supervised, and planned community-building events for 55 co-ed students

Software Engineer Intern Google, Inc.
Pittsburgh, PA *June 2012 - August 2012*

- Wrote infrastructure management software using Python and C++
- Gained in-depth knowledge of Google compute resources to understand project scope

Cloud Infrastructure Consultant Cypherworx, Inc.
Fairport, NY *March 2012 - June 2012*

- Migrated existing infrastructure to Rackspace
- Automated Rackspace instance maintenance with shell/Python scripts

Social Director Computer Science House
Rochester Institute of Techology *September 2011 - May 2012*

- Planned social events and served on the Computer Science House Executive Board

Application Support Engineer Newstex, LLC
Telecommute *March 2011 - March 2012*

- Created Python WSGI applications
- All-AWS environment: EC2, S3, SQS, and SDB
- Parsed HTML/XHTML/XML
- Designed/implemented RESTful APIs

Projects

Boto github.com/boto/boto

- Contributed to the open-source Python interface to Amazon Web Services, added support for uploading and executing scripts automatically to simplify configuration of new instances.

Impulse Shell github.com/ryansb/ish

- Wrote a Python shell to interface with Impulse, a SQL-backed PHP application to manage network access. Python shell abstracts discrete items (addresses, machines) and uses a shell similar to the Python shell to take user input and make changes in PGSQL database.

Skills

Platforms: Linux (RHEL, CentOS, Debian); Windows Server (2008, 2003); Z/OS (Z9, Z10)

Software: Eclipse, Vim, Boto, Nose, JUnit, Git, Mercurial, TurboGears2

Skills: Amazon Web Services, Distributed Application Design, LDAP/Kerberos/NIS, libvirt

Languages: Python, C++, Perl (5.12), Java, PHP, CSS/HTML, MySQL