

RYAN S. BROWN

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Key Skills

Python Programming
Amazon Web Services
Distributed
Application Design
Remote Management
Active Directory
Kerberos/LDAP/NIS
Virtualization
Linux Administration

Education

Rochester Institute of
Technology,
Rochester, NY

**Major - Applied
Networking and
System
Administration**

**Minor - Software
Engineering**

Expected 2013

GPA: 3.3

Courses

Software Testing
Network Services
Intro to Software
Engineering
Adv. Routing &
Switching
Systems Admin. I

SYSTEM ADMINISTRATOR

Windows and Linux System Administrator, Software Engineer

System Administration and networking specialist with in-depth knowledge of Windows and Linux enterprise environments, including extensive use of Amazon Web Services, TCP/IP networking, and scripting.

Technology Summary

Systems: Linux (RHEL, CentOS, Debian); Windows (all); Z/OS (Z9, Z10)
Networking: LANs, WANs, Routers, Firewalls, TCP/IP
Software: VMWare (Workstation, ESXi), Xen, Vim, Eclipse, Cisco WCS/IOS
Languages: Python, Perl (5.12), Java, C++, Node.js, PHP, CSS/HTML

Experience

Cypherworx Inc.
Telecommute

Systems Engineer, Feb '12 – Present

- Migrate infrastructure to Rackspace
- Configure CDN for static content
- Make Drupal use CDN without impairing functionality

Residence Life,
Rochester Institute of
Technology

Resident Advisor, Fall '11 - Present

- Responsible for 55 co-ed college students ranging from first to fifth year
- Duties include mentoring students, planning community-building events, and enforcing policies

Computer Science
House, Rochester
Institute of Technology
Newstex, LLC.
Telecommute

Social Director, Fall '11 – Present (Member Fall '09)

- Organize numerous social events
- Serve on Executive Board

Application Support Engineer, March '11 – Feb '12

- Python programming and application design
- All-AWS environment: EC2, S3, SQS, and SDB.
- Parsed HTML/XHTML/XML
- Managed EC2 instances
- Created RESTful API's

Project Highlights

- **Boto:** Contributed to the open-source Python interface to Amazon Web Services. Specifically for EC2 instance management functionality. See the framework at <https://github.com/boto/boto>
- **ZSH-Boto:** Wrote a set of tab-completion scripts for ZSH that make command-line administration of S3 and Elastic Load Balancer more user friendly. <https://github.com/ryansb/zsh-boto>
- **Impulse Shell:** Wrote Python shell to serve as frontend for Computer Science House's machine registration system. Communicates with PostgreSQL to serve requests. Didn't use SQLAlchemy, chose instead to write ORM from scratch. <https://github.com/ryansb/ish>
- **Nagini DB:** Wrote a Python interface to the Voldemort key-value datastore, including implementing storage of serialized Python objects and an indexing schema for stored objects.