Ryan S. Brown

http://ryansb.com/

sb@ryansb.com   2554 Nathaniel Rochester Hall, Rochester, NY 14623   (323) 761-9146

OBJECTIVE   Seeking full time employment in the design and implementation of cloud systems in a DevOps or Software Engineering role. Available full time June of 2013.

SUMMARY   I love working with large systems, the less predictable the better. Scaling, load balancing, and graceful failure handling are my favorite classes of problems. My free time quickly fills with personal projects and self directed research on new tools or different areas of my field.

EDUCATION   **Rochester Institute of Technology** – Rochester, NY   September 2009 – May 2013
B.S. Applied Networking and Systems Administration   *GPA: 3.4/4.0*
Minors Software Engineering, Applied Communications
Courses Engineering of Software Subsystems, Software Testing, Software Usability, Process and Product Management, Adv. Routing & Switching, Network Services, Systems Admin 1, Scripting in Perl

SKILLS   **Languages** Python, C++, Perl, Java, Bash, PHP, SASS/CSS
Platforms Linux [RHEL, CentOS, Debian], Windows Server [2008, 2003], Cisco IOS, Z/OS
Services Kerberos, LDAP, Apache, NginX, BIND, djbdns, DHCPD, Jabber
Tools Vim, Git, Mercurial, Regex, Nose, TurboGears2, Distutils2, Mako/Jinja, LaTeX

EXPERIENCE   **RIT Lab for Technological Literacy** – Rochester, NY   August 2012 – Present
Systems Administrator   http://foss.rit.edu/
Worked as a System Administrator in the Free/Open Source Software initiative. Wrote web utilities to streamline developer workflows including auto-deploy hooks from Git to the Python Package Index.

Computer Science House – Rochester, NY   August 2011 – Present
Resident Advisor   http://csh.rit.edu/
Mentored and supervised 55 co-ed first through fifth year college students. Duties included planning and hosting community building events, enforcing policies, and resolving conflicts between residents.

Google – Pittsburgh, PA   June – August 2012
Software Engineering Intern   http://google.com/
Wrote infrastructure management software in Python and C++. This required a deep familiarity with Google compute resources and infrastructure to understand the project scope. The software saved time and money by managing requests for maintenance-related downtime, without impacting availability.

Cypherworx, Inc. – Fairport, NY   March – June 2012
Cloud Infrastructure Consultant   http://cypherworx.com/
Designed a scalable infrastructure in the Rackspace cloud to cope with a growing user base. Wrote maintenance scripts for the new infrastructure in Bash and Python that saved hours when needs changed. Used Rackspace's CDN to host static content, and Amazon Cloudfront to serve Flash content via RTMP without changing existing workflows.

Newstex, LLC – Telecommute   March 2011 – March 2012
Cloud Application Engineer   http://newstex.com/
Developed WSGI applications to deliver news stories to customers using EC2, S3, SQS, Route53, and SDB. Primary role was the design and implementation of internal RESTful API's that parsed XHTML/XML with minimal delay, including an XSLT segment management application.

PROJECTS   **Fedora Messaging System IRC Bot**   http://github.com/ryansb/fedmsg
Built an IRC bot using Twisted to subscribe to ZeroMQ topics and display notifications in IRC on specified ZeroMQ topics.
Boto   http://github.com/boto/boto/
Contributed to the open source Python interface to Amazon Web Services. Added support for uploading and executing scripts automatically on new instances.
IMPULSE Shell   http://github.com/ryansb/ish/
Wrote a Python shell for users to interactively make changes to DNS/DHCP records, devices, addresses, and other network resources in IMPULSE, a PgSQL-backed application.
ZSH-Boto   http://github.com/ryansb/zsh-boto
Created a set of tab-completion scripts for ZSH that make command-line administration of S3 and Elastic Load Balancer more user friendly.