

Ryan Scott Brown

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SUMMARY I am drawn to DevOps because I love working with large systems, the less predictable the better. High-scale distributed systems 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
Software Courses Engineering of Software Subsystems, Software Testing, Software Usability, Process and Product Management, Humanitarian Free & Open Source Software (Teaching Assistant)
Systems Admin Courses Adv. Routing & Switching, Network Services, Systems Admin 1-3, Scripting in Perl

SKILLS **Languages** Python, Go, Bash, Node.js, C++, Perl, Java, SASS/CSS
Platforms Openstack, Linux [RHEL, CentOS, Debian], Windows Server [2008, 2003], Cisco IOS, Z/OS
Services Nginx/Apache/IIS, BIND9/djbdns, DHCPD Kerberos, LDAP, Active Directory,
Tools Vim, Git/Mercurial, Chef, Ansible, CloudFormation, Openstack Heat, Nose, Pyramid, L^AT_EX

EXPERIENCE **Red Hat, Inc.** – Telecommute/Buffalo, NY June 2014 – Present
Software Engineer, OpenStack <http://redhat.com/>
Submitted features and fixes upstream to the OpenStack Heat (Orchestration) project and downstream to RDO/RHOS. Backported new features to stable releases and packaged Heat for Fedora, CentOS 6/7, RHEL 6/7.

Hudl – Telecommute/Lincoln, NE June 2013 – June 2014
DevOps Engineer <http://hudl.com/>
Created Python metrics/analytics applications and used Chef to manage infrastructure behind a high-scale video delivery application. Improved AWS infrastructure security posture and created incident response procedures. Implemented behavior-driven tests for Chef-managed infrastructures using Cucumber. Built automated deployment systems in Go and Node.js.

RIT Lab for Technological Literacy – Rochester, NY August 2012 – May 2013
Systems Administrator <http://foss.rit.edu/>
Worked as a System Administrator in the Free and Open Source Software Research Lab. Wrote web utilities to streamline developer workflows and managed machines using Ansible. Organized and hosted hackathons in cooperation with sponsors and other campus organizations.

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. – Telecommute/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 **HFLOSSK** <http://github.com/ryansb/hflossk/>
Built a Python command line tool to help teachers run courses using Free and Open Source Software. The tool automates publishing course material to OpenShift and simplifies teaching multiple courses simultaneously.

Mailicorn <http://github.com/mailicorn/>
Built a Cornice + Ember.js webapp to serve as a generic IMAP webmail client. Currently rewriting server-side in Go and imapv4client. Used AWS Cloudsearch and Elasticache to provide unified, multi-account search.

SpaceHub <http://github.com/ryansb/spacehub/>
Built a Pyramid + Ember.js webapp on OpenShift to mirror projects from disparate sources to Github. Handles tarball, SVN, and Mercurial sources. Ranked among the global top 10 for NASA Space Apps Challenge.