



Joseph Anthony Pasquale Holsten

Skills

Programming Languages

Significant experience with Ruby, Portable Bourne Shell & Go, Javascript. Some experience with C, PHP, C#. SQL, Java. Merely dangerous in Python, Scheme, M4, Perl, Haskell, Erlang, TCL & Awk.

Operations

Significant experience with Configuration Management (Chef, Puppet, Ansible), HTTP Servers (Nginx, Apache), Package Management (Deb, MacPorts, Ruby Gems, RPM), Process Management (Upstart, Systemd, Monit) & Logging (RSyslog, Logstash, Loggly), Network Monitoring (Nagios, Server Density) & Rsync. Some experience with Firewalls (IPFilter, IPF), Relational Databases (PostgreSQL, MySQL, SQL Server). Merely dangerous with LDAP, VPN, Intrusion Detection & Single Sign On.

Web technologies

Significant experience with HTTP, REST, HTML, DOM & XML (incl. Namespaces). Some experience with CSS & SAX. Merely dangerous with RDF, SOAP & WSDL.

Operating Systems

Significant experience with UNIX (Debian, RHEL, OS X & Solaris). Some experience with Windows (NT 4 & 2000 admin, 2003 dev). Want excuses to play with Plan 9 & IBM i (née AS/400).

Software engineering

Significant experience with Model-View-Controller (Rails, Backbone, AngularJS), Test Driven Development (RSpec, cucumber, xUnit), Continuous Delivery (Jenkins, Rake, Make) & Queueing (RabbitMQ, Redis pubsub, ØMQ). Some experience with Evented concurrency (Node.js), Key-Value databases & Document databases.

Experience

Infrastructure Engineer, Ensigniten

2012-11 – Present

Infrastructure buildout, maintenance, & automation: Converting ~500 servers to be automated using puppet.

Infrastructure Engineer, Simply Measured

2012-02 – 2014-08

Infrastructure buildout, maintenance, & automation: Designed, built and maintained systems to run internal applications and support services. Maintained ~500 servers and ~50 internal applications, averaging a 150 server-to-admin ratio.

Metrics & reporting: Provided services for measuring and reporting performance and usage of internal applications.

Education: developed, maintained & trained in procedures for using infrastructure and internal support services.

Developed ~100 standard operating procedures and supported ~45 engineers.

Emergency response: developed and maintained on-call processes for engineering teams to respond to their respective application and infrastructure failures.

Developer, New Medio

2011-08 – 12-01

In charge of implementing CMS designs.

Founder, Operations Guy, Bitp.it

2011-02 – 2011-08

Developed, implemented fully automated deployments using git, chef

Ran a node.js service on a single no.de server handling over 400 requests per second

Ran a bitcoin mining pool at 100 GHash per second

Senior Engineer, Waterfield Technologies, Inc

2007-04 – 2011-09

Developed, implemented fully automated deployment strategies using VMWare, git, chef, & capistrano

Developed banking & energy sites using SharePoint, ASP.NET, Ruby on Rails

Automated testing, continuous integration site monitoring with Cucumber, RSpec, NUnit, CruiseControl

Developed a content publishing service with [JSON](#), [HTML](#) & SOAP interfaces

Engineer, Mobicentric

2009-10 – 2010-08

Developed a mobile real estate listing service for real estate agents

Optimized a pure ruby RETS client to process ~6000 listings & ~60000 images per day on a single heroku worker

Web Programmer, Toydrum, Inc

2007-01 – 2007-04

Developed community item trading site using PHP, Zend framework

Implemented double entry accounting, folksonomies, event based messaging

Web Designer, DoubleShot Coffee Developed their internet identity Designed their blog with CSS , Blogger templates Integrated with Flickr integration, Paypal integration Site administration, ASP , PHP	<u>2006-09</u> – <u>2011-12</u>
Web Developer, Thirst Wine Developed content management site using Ruby on Rails Implemented authentication, protected assets, email notifications Converted table based design to CSS	<u>2007-12</u> – <u>2008-03</u>
Web Programmer, Midwest Publishing Converted paper based questionnaires to web forms using perl	<u>2006-01</u>
Network Administrator, Christ United Methodist Church Upgraded existing systems in software & hardware Administered File, Printing, DNS, Active Directory Services Documented existing service settings procedures Completed 20 node Learning Lab Installation	<u>2003-06</u> – <u>2004-09</u>

Education

Computer Science, Oklahoma State University Tulsa, OK	<u>2005</u> – <u>2010</u>
Cisco Network Academy, Tulsa Technology Center, Tulsa, OK	<u>2002</u> – <u>2003</u>

Open Source Contributions

Most of my open source contributions are visible at <https://github.com/josephholsten/>, off-github contributions follow:

Contributor, glibc [commitdiff]	<u>2014</u>
Contributor, go [commitdiff]	<u>2013</u>
Contributor, OASIS [XRD]	<u>2008</u> – <u>10</u>
Contributor, IETF [Disco, About:]	<u>2009</u>
Contributor, OAuth Extensions [Session, Language, Scalable]	<u>2008</u>
Contributor, Ruby on Rails [XmlMini]	<u>2008</u>

Presentations

Saturday Night Disco on Monday Morning, DevOpsDays Austin [video, slides]	<u>2014-05-06</u>
Becoming Fearlessly Definite & Resourceful, ChefConf [video, slides]	<u>2014-04-17</u>
Services in Go: from Proof-of-Concept to Production, GolangVan [video, slides]	<u>2014-02-05</u>

Interests

Augmented Reality, Digital Contracts, Digital Reputation
Espresso, Cigars, Food, and Flavor
Community Organizing, Volunteering and Open Source

References

Available upon request