



# Joseph Anthony Pasquale Holsten

## Skills

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### 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, Salt, Ansible), HTTP Servers (Apache, Nginx), 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

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### Infrastructure Engineer, Simply Measured

**2014-02 – 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

**2006-09 – 2011-12**

Developed their internet identity

Designed their blog with CSS, Blogger templates

Integrated with Flickr integration, Paypal integration

Site administration, [ASP](#), [PHP](#)

### **Web Developer, Thirst Wine**

[2007-12](#) – [2008-03](#)

Developed content management site using Ruby on Rails  
Implemented authentication, protected assets, email notifications  
Converted table based design to [CSS](#)

### **Web Programmer, Midwest Publishing**

[2006-01](#)

Converted paper based questionnaires to web forms using perl

### **Network Administrator, Christ United Methodist Church**

[2003-06](#) – [2004-09](#)

Upgraded existing systems in software & hardware  
Administered File, Printing, DNS, Active Directory Services  
Documented existing service settings procedures  
Completed 20 node Learning Lab Installation

## **Education**

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Computer Science, Oklahoma State University Tulsa, [OK](#)

[2005](#) – [2010](#)

Cisco Network Academy, Tulsa Technology Center, Tulsa, [OK](#)

[2002](#) – [2003](#)

## **Open Source Contributions**

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

Contributor, glibc

[2014](#)

[\[commitdiff\]](#)

Contributor, go

[2013](#)

[\[commitdiff\]](#)

Contributor, OASIS

[2008](#) – [10](#)

[\[XRD\]](#)

Contributor, IETF

[2009](#)

[\[Disco, About:\]](#)

Contributor, OAuth Extensions

[2008](#)

[\[Session, Language, Scalable\]](#)

Contributor, Ruby on Rails

[2008](#)

[\[XmlMini\]](#)

## **Presentations**

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Saturday Night Disco on Monday Morning, DevOpsDays Austin [\[video, slides\]](#)

[2014-05-06](#)

Becoming Fearlessly Definite & Resourceful, ChefConf [\[video, slides\]](#)

[2014-04-17](#)

Services in Go: from Proof-of-Concept to Production, GolangVan [\[video, slides\]](#)

[2014-02-05](#)

## **Interests**

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Augmented Reality, Digital Contracts, Digital Reputation

Espresso, Cigars, Food, and Flavor

Community Organizing, Volunteering and Open Source

## **References**

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Available upon request