Joseph Anthony Pasquale Holsten

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Skills

Programming Languages
Significant experience with Ruby, Portable Bourne Shell & Go, JavaScript. Some experience with C, Python, SQL, Java. Merely dangerous in Scheme, Haskell & Erlang.

Operations
Significant experience with Configuration Management (Chef, Puppet, Ansible), HTTP Servers (Apache, Nginx), Network Monitoring (Sensu, Nagios, Server Density), Metric Timeseries (Graphite, Librato), Service Discovery (Consul, custom), Queue Brokers (RabbitMQ, Kafka, Redis), Log Management (Logstash, RSyslog, Papertrail), Package Management (Deb, MacPorts, Ruby Gems, RPM), Process Management (Systemd, Daemontools, Monit), and Rsync. Some experience with Firewalls (IPFilter, IPF), Relational Databases (PostgreSQL, MySQL, SQL Server). Merely dangerous with Hadoop, Cassandra, LDAP, Active Directory, VPN, Intrusion Detection & Single Sign On.

Web technologies
Significant experience with HTTP, REST, HTML, DOM & XML. 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 (Server 2012 R2). Want excuses to play with Plan 9 & IBM i (née AS/400).

Software engineering
Significant experience with model-view-controller, test driven development, continuous delivery & queueing. Some experience with evented concurrency, key-value databases & document databases.

Experience

Infrastructure Engineer, Ensighten
2014-11 – 2017-03

Infrastructure buildout, maintenance, & automation: Collaborated with infrastructure and product engineers to maintain ~1300 servers using Terraform for provisioning, Puppet for platform config & Ansible for deployment. Servers were spread across 14 datacenters/regions, from 3 cloud providers and 1 non-cloud provider.

Monitoring: Built server monitoring service to support cross-region availability and autoscaling clusters using Sensu & Graphite.

Secondary DNS for Geo-Targeted Services: Converted ~2000 records for 12 datacenters from manual configuration in UltraDNS to configuration-as-code with support for both UltraDNS & NS1. Implemented the UltraDNS & NS1 providers for Terraform, and a Nagios-compatible monitoring plugin to check for divergence.

Tooling development: Implemented & maintained Terraform providers in Go (now included the offical release), Nagios/Sensu plugins in Ruby, and assorted work in Python, Java, Node.js, Groovy & PHP.

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 and 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.

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 API client to process ~6000 listings & ~60000 images per day on a single Heroku worker, over 10x more throughput than the vendor's standard client.

Further experience available upon request

Open Source & Community Contributions

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

Founder & Board Member, Sous Chefs   2015

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

Sous Chefs, Food Fight Show [video]   2017-01-06

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

Education

BS Computer Science, Oklahoma State University Tulsa, OK   2005 – 2010

Cisco Network Academy, Tulsa Technology Center, Tulsa, OK   2002 – 2003

Interests

Augmented Reality, Digital Contracts & Reputation

Community Organizing, Volunteering & Open Source

References

Available upon request