

ASHLEY PENNEY

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EXPERIENCE

Puppet Labs

Senior Software Engineer

July 2013 – Present

Portland, OR

The module team is responsible for writing and maintaining over seventy Puppet modules, including several of the most popular Puppet modules in existence, such as stdlib, apache, mysql, postgresql, and F5. Over the last year I've been instrumental in launching several key projects as well as proposing and winning approval for two more key initiatives to build a development community for modules and to launch our "Approved Modules" program to identify key quality modules.

- We launched the Supported Modules program. This is the first vendor backed supported modules program on the market. In preparation for this I personally redesigned, refactored, and rewrote some of our most critical modules. This included our F5 module, which is one of the largest and most complex in existence.
- I designed our testing strategy and worked with the team to build thousands of unit and acceptance tests across our modules in order to validate them across 27 supported Puppet Enterprise platforms.
- In order to help our community build great modules I took ownership of the documentation around modules. I wrote, and released, our "Beginners Guide to Modules" as well as an expanded "Advanced Guide to Modules." I've also written blog posts, overhauled the documentation of our key modules, and worked directly with community members to set direction around documentation.
- Launched a weekly triage meeting with our community to evaluate, and merge or reject, pull requests to modules. Over the last year we've triaged over 2000 pull requests.
- Refactored some code within Puppet itself, such as yumrepo, to improve our modules.

Jumptap

Senior Systems Administrator

March 2013 - June 2013

Boston, MA

I joined Jumptap to teach the operations team devops practices and to improve their ability to support a large clustered trading and advertising platform.

- Restructured the daily workflow for the operations team to improve internal communication and tracking of work in progress.
- Worked with the devops team to rebuild much of the Puppet environment, replace Perforce with Github Enterprise, evaluate Openstack and launch a deployment system.

EdX

Devops Engineer

October 2012 - March 2013

Cambridge, MA

Bringing my prior Puppet experience to EdX I was able to help the team turn around a difficult automation situation. I started by rebuilding the Puppet infrastructure from scratch by rewriting all the existing code, and then moved to building Fabric tasks to automate our cloud provisioning and maintenance and our code deployment.

- Took ownership of writing weekly reports to the leadership team to improve our internal visibility within the organization.
- Introduced Kanban and Agile into the team to help us identify and resolve bottlenecks in our infrastructure delivery pipeline.

- Worked with development to scope, build, and test some enhancements to the EdX platform to allow for third party integrations and sandboxing of externally submitted student code. We also launched several services for engineering, such as RabbitMQ clusters and Splunk.

SilverSky

June 2011 - October 2012

Team Lead, Operations

Boston, MA

- Leading a devops team of three I built a new RHEL based environment to provision and fully automate over 250 servers. Once this was launched I switched to mentoring junior members of operations in devops practices, helping the team to support and eventually expand the automation we built.
- Built a multi-datacenter distributed Puppet environment with 110 custom modules to handle all existing services within SilverSky.
- Organized training sessions for 12 members of operations in devops practices in which they learned to write Puppet modules, unit tests, best practices for provisioning and deployment, and Kanban workflows.
- Worked closely with the Boston development team to design and launch an EC2 based development environment used by over thirty engineers. This included automating and deploying Oracle and other services for on demand instances.

Harvard Law School

February 2008 - June 2011

Senior Systems Administrator

Cambridge, MA

- As part of the operations team at HLS, I introduced automation into the environment for the first time. I built a rapid provisioning system and used it to rebuild all manually maintained system in a fully automated fashion.
- I replaced 35 physical servers with 65 virtual servers, which reduced the server build time from 1 week to 10 minutes and decreased OPEX.
- Worked closely with external teams, such as the Communications department, to launch the new Harvard Law website. We did this with zero downtime.
- Owned the operations role in the development, deployment, and maintenance of the new identity management system. This system manages all student accounts, information, and lifecycle during their time at HLS.

Prior roles at: NTT Europe Online, MessageLabs, Tiscali, Yahoo!, Versatel, Interxion, and Speedport.

Please ask for an expanded resume covering those positions if you're interested in details.

TECHNICAL SKILLS

Languages	Ruby, Python, Perl, Bash, Scheme (Beginner)
Operating Systems	Linux, FreeBSD, Solaris, OSX, Windows
Software	Git, Apache, MySQL, PostgreSQL, Nginx, Tomcat, Splunk, RabbitMQ
Automation	Puppet, Hiera, Facter, Mcollective, Foreman, Pulp, Ansible, Salt, Chef
Virtualization	EC2, Vsphere, Proxmox, KVM
Networking	TCP/IP, Cisco, F5, Firewalls, VPN

INDUSTRY CERTIFICATES

RHCE (Redhat Certified Engineer) — January 2012

RHCSA (Redhat Certified Systems Administrator) — January 2012