

# ASHLEY PENNEY

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## EXPERIENCE

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### **nToggle**

*Devops Engineer*

January 2015 – Present

*Boston, MA*

At nToggle I rejoined several of my Jumtap coworkers to help launch an adtech startup that helps companies filter and route real time bidding traffic to their bidding systems.

As an initial key hire at nToggle, I am responsible for all aspects of operations; packaging, testing, deployment, and maintenance. Using containers and Ansible we have a fully automated setup that allows us to transparently deploy into physical and virtual environments. Most of my time has been spent on performance optimization for our key product, nroute, a low latency, high throughput, router. This has required performance measuring and optimization from the kernel up to internals of the JVM.

### **Metacloud**

*Senior Software Engineer*

September 2014 – January 2015

*Pasadena, CA*

I joined the engineering team at Metacloud to transform the aging QA environment. This was previously managed by hand and I spent several months building out Chef automation to rebuild and scale out the testing infrastructure. This eventually led to a migration that reduced testing cycles from full days to less than an hour. Metacloud was acquired by Cisco during this time.

### **Puppet Labs**

*Senior Software Engineer*

July 2013 – September 2014

*Portland, OR*

As the first team hire, I was able to initiate and manage key projects that allowed Puppetlabs to build a developer community around the previously ailing, but critical, set of public modules provided by Puppetlabs.

These projects included our "Supported Modules" initiative, the first commercial, vendor backed set of automation modules. I redesigned, refactored, and rewrote several of these critical modules. I also designed our testing strategy and worked with the team to build thousands of unit and acceptance tests across the module base, allowing us to validate them against 27 supported Puppet Enterprise Platforms.

Other work included refactoring core Puppet code, writing several popular guides around building modules, overhauling documentation, and launching weekly triage meetings to decrease the backlog of unmerged PRs. This led to over 2000 PR merges.

### **Jumtap**

*Senior Systems Administrator*

March 2013 - June 2013

*Boston, MA*

I joined Jumtap to help the operations team adopt devops practices and to improve their ability to support a large clustered trading and advertising platform. I restructured the daily workflow within the operations team, using Kanban, to help transform the internal communications and tracking of work in progress. We were able to leverage these process changes to rebuild large portions of the Puppet automation, replace Perforce with Github Enterprise, and launch a custom 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, rewriting all the existing code, and then moved to building Fabric tasks to automate our cloud provisioning and code deployment.

Alongside this work I started weekly reports to the leadership team, and adopted Kanban and Agile techniques within the team in order to help us identify and overcome some bottlenecks in our infrastructure delivery pipeline. Lastly, I worked closely 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.

## SilverSky

June 2011 - October 2012

*Team Lead, Operations*

*Boston, MA*

In order to pass an FDIC FFIEC audit, I led a team of three devops engineers dedicated to fully automating all provisioning, deployment, and ongoing operations.

My team built a new multi-datacenter Puppet deployment in order to rebuild and automate all existing servers across physical and cloud environments. We worked closely with the existing operations team to mentor junior members and spread devops practices. This consisted of training sessions in writing Puppet modules, writing unit and acceptance tests, automated provisioning and deployment techniques, and adopting Kanban and Agile workflows. This work led to successfully passing the audit.

## 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 provisioning system, and then used it to rebuild all manually maintained systems in a fully automated fashion. This allowed us to replace 35 physical servers with 65 virtual servers, reducing delivery time of new instances from 1 week to 10 minutes.

Other work included launching the new Harvard Law website with zero downtime, and tightly integrating operations with development throughout the multi-year development of the identity management system that manages the lifecycle of student, staff, and faculty accounts and data throughout their tenure 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

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

## INDUSTRY CERTIFICATES

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**RHCE** (Redhat Certified Engineer) — January 2012

**RHCSA** (Redhat Certified Systems Administrator) — January 2012