

Adam Barrett

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Technical Skills

Likes: linux python bash open-source systems-administration kubernetes go coreos openshift openstack
Dislikes: ruby

Experience

Sep 2014 → Current **Senior Infrastructure Engineer** – zulily, LLC

kubernetes, coreos, go, python, linux, flannel, etcd, gcloud, google-cloud-platform, rackspace-cloud, openstack, bind, dnsmasq, salt-stack, f5, big-ip

As a Senior Infrastructure Engineer at zulily, I have spent the last two years writing internal tools in Python and Golang that allow us to quickly spin up instances of VMs in Rackspace Cloud, and Google Compute Engine. The GCE instances are also a non-homogenous cluster of instance sizes comprising a Kubernetes cluster build on CoreOS and configured with cloud-config, running flannel for the overlay network, and etcd as the storage for the cluster. This cluster is home to multiple teams, each with their own unique namespaces and resource quotas.

- Build and scale Kubernetes stack on CoreOS withing Google Compute Engine
- Kubernetes cluster scaling software written in Golang, for scaling and monitoring nonhomogeneous cluster
- Develop and maintain software for provisioning cloud and physical machines in Rackspace Cloud, and Google Compute Engine
- Develop and maintain SaltStack states for machines used to managing infrastructure
- Manage DNS, automate DNS for scaling

Apr 2013 → Sep 2014 **Software Engineer** – Progrexion Marketing

linux, php, mysql, apache, salt-stack, rsyslog, beanstalkd, memcache

Progrexion Marketing is the middle-man and technology backbone for Lexington Law, and CreditRepair.com, as well as eFolks.com. We maintained multiple internet properties, and a complex phone dialog script generation system.

- Design and deploy SaltStack configuration for development, test, staging, and production servers
- Automation of deployment using SaltStack and git
- Maintenance of internal software built on LAMP stack.
- Configuration of Unit Testing environment including Jenkins server configuration
- Peer Review of code
- Helping developers with everyday git routines including, branching, merging, and commit reversal.

Aug 2008 → Apr 2013 **Senior Software Engineer** – SOS Staffing

php, linux, mysql, pdf-generation

SOS Staffing was a leader in placing technology in to the hiring process, making it possible to hire more people and place them in better jobs faster and while wasting fewer man hours.

- Created technology stack to improve hiring process
- Reduced hiring process from days to hours across all industries
- Reduced man hours spent hiring each year by millions of hours
- Reduced paper usage by digitizing the entire hiring form process
- Handled complex payroll and tax calculations
- Developed system to generate PDF versions of employee tax documents
- Developed portal for employees to find positions, update hiring documents, download tax information and more.

Education

1999 → 2001 **Associates Degree** – ITT Technical Institute

windows, visual-basic, linux, networks

- Create Windows network without touching machine (kickstart file)
 - Designed simple encryption software using VB6
 - Installation and maintenance of Red Hat Linux
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Certifications

2015 → 2016 **Linux Administration Certificate from University of Washington Professional Continued Education**
linux, haproxy, docker, centos7, centos6, ubuntu, python

2014 → 2014 **Salt Stack Certified Engineer**
salt-stack

Public Artifacts

Broadcast Communication in Golang | Utahcon — Utahcon – <http://utahcon.com/broadcast-communication-in-golang/>

Personal blog post about synchronized communication between GoRoutines in Golang.

Readings

Site Reliability Engineering: How Google Runs Production Systems – <http://www.amazon.com/Site-Reliability-Engineering-Production-Systems/dp/149192912X>

The Pragmatic Programmer: From Journeyman to Master – Andrew Hunt, David Thomas – <http://www.amazon.com/Pragmatic-Programmer-Journeyman-Master/dp/020161622X>

Gray Hat Python: Python Programming for Hackers and Reverse Engineers – Justin Seitz – <http://www.amazon.com/Gray-Hat-Python-Programming-Engineers/dp/1593271921>

Python in a Nutshell – Alex Martelli – <http://www.amazon.com/Python-Nutshell-Alex-Martelli/dp/0596001886>

Tools

Favorite Editor: PyCharm