

## **James Loosli**

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### **Skills and Experience Summary**

- Puppet/Saltstack infrastructure automation
- Python, Ruby, Perl, Bash backend development
- Automated web app deployment: NodeJS, ReactJS, Java, Go
- AWS EC2, Elastic Beanstalk, VPC experience
- 24/7 Support Team experience
- RedHat and Debian-based Linux distributions
- DNS Configuration and Management

### **Work History**

#### **Hart, Inc**

**01/2016 – Current**

##### **Devops Chapter Lead**

- Initiated a ground-up refactor of the entire cloud-based infrastructure (AWS).
- Built a representation of our virtual networking and security groups in salt pillars, then built automation around that pillar to deploy networks in a state-aware way using Saltstack.
- Automated deployment of Consul for service discovery, implemented a small service check library in python as a helper for registration.
- Architected a prototype of our build system which was flexible enough to cover NodeJS, Java, and Go applications, then implemented that system for a growing collection of microservices, currently sitting around 50 microservices.
- Implemented Salt events and reactors powering lightweight and robust continuous integration.
- Wrote a simple set of modularized Salt states which deployed each microservice, and registered it with service discovery.
- Built out automation for load balancers running haproxy configured by data found in Consul.
- Automated creation of salt-cloud profiles from a very terse yaml representation of the role types in our infrastructure.
- Evangelized and participated in a weekly production release process that ensured that code releases went smoothly on a technical level and on a human level.
- Collaborated with a large team to migrate a Hadoop infrastructure off of a handbuilt environment to an automated one. Helped reduce and remove duplicated services to bring the AWS EC2 costs from \$180k/month to \$100k/month.
- Rebuilt elasticsearch automation to run on Triton (Smart DataCenter).

#### **Instant Channel**

**06/2013 – 12/2015**

##### **Linux Systems Engineer**

- Automated entire infrastructure from manual deployment and configuration to Puppet-based, hands-free infrastructure system. Deployment flexibility allowed for a

geometric increase in infrastructure resources.

- 6 months after being hired, mail delivery staff was increased to utilize the increased available resources, and revenue increased from \$200k monthly net to a peak of \$500k monthly.
- After automating the infrastructure, the role shifted to backend development and resource management.
- Prototyped the current mainline mail delivery process, which saw peak monthly revenues of over \$1 million, 12 months after being hired.
- Negotiated lower rates for leased IP blocks by 50%. Aggressively pruned unneeded infrastructure and migrated lower-load services (LDAP, Puppetmaster, Internal webapps) to virtual machines. Saved nearly \$400k per year in infrastructure and IP costs while tripling the resources available for mailing.
- Negotiated lower domain purchase rate from \$15.00/year to \$10.00/year, then later to \$9.00/year, saving \$72,000 per year on domains alone.
- Oversaw development of IP address management software after writing the server-side backend and prototyping IP over GRE tunnels.
- Currently prototyping domain-management software. Responsible for the server-side code which can interact with multiple registrar APIs (enom, namecheap, godaddy).
- Responsible for the uptime of over 10,000 individual domains, and ~16,000 IP addresses.
- Built an end-to-end development pipeline with multiple environments, easy rollback and unit testing for Puppet, web-facing apps, internal apps, and server backend code using JenkinsCI.
- Built an SSH-secured APT package repository for dead-simple application installation on our debian systems for both production and testing environments.

## **Adconion Media Group - Blackstar**

**02/2011 – 5/2013**

### **Linux Systems Administrator**

- Part of a team that handled email delivery for Disney, Samsung, AT&T, match.com and others.
- Created an exceptionally large load-balanced email delivery network, delivering over 100 million messages daily, utilizing otherwise wasted IP space.
- Created a reporting pipeline for personal delivery statistics that eventually replaced the company's entire revenue report handling over 3 million monthly user actions, tying them to payable actions.
- Accurate reporting was attributed for a sharp uptick in monthly gross revenue, as offers were selected for revenue and conversions instead of simple click targets.
- Automated most of the day-to-day email delivery tasks using Bash and PHP.
- Constantly re-built and analyzed email templates for consistent delivery.
- Aggressively ensured that emails were can-spam compliant, while still maintaining delivery targets.
- Trained another staff member to take over statistics reporting.
- Moved to the operations team from mail delivery team.

- Specific responsibilities included domain acquisition, domain management and DNS management for 200 individual PowerDNS nameservers.
- Used and managed servers using Puppet, Deployed remote servers with Puppet
- Worked as part of an on-call team that provided 24/7 support for around the clock operations.
- Configured mailservers running PMTA, Zimbra, Postfix.
- Configured DNS-Related email verification methods such as DMARC, DKIM/DomainKeys, SPF.
- Debugged IP GRE Tunnels.
- Leveraged Jenkins server to build projects and create better development pipelines.

**Education:**

Woodbridge High School, Graduated Class of 2004

**Volunteer and Other Experience:**

Sergeant, USMC Reserve, 2005-2013

Missionary, Poland Warsaw Mission, 2009-2010



