# **MARTIN WALSH**

Linux System Administrator · DevOps

SUMMARY		PROFICIENCIES
Code-slinging system administrator, DevOps practitioner, and open	Systems	RHEL/CentOS, Debian/Ubuntu, Mac OS X,
source enthusiast with more than 15 years experience and a passion for		Windows
automation.	Services	Apache, Nginx, Memcached, Redis, RabbitMQ,
		BIND, Postfix, PuppetDB, Elasticsearch, Consul
<ul> <li>Detail-oriented and dedicated to fulfilling business objectives</li> </ul>	Tools	Puppet, Ansible, Vagrant, Packer, Docker, git,
<ul> <li>Trusted teammate/mentor with a reputation for high productivity</li> </ul>		make, Capistrano, Jenkins
Deep understanding of configuration management practices	Monitoring	Nagios, Ganglia, Logstash, Graphite, Statsd,
Advocate of operational transparency (and ChatOps)		Monit, Kibana, Grafana
Strong programming background; expert-level Python language	Languages	Python, Ruby, Coffeescript/Javascript, Bash

#### - PROFESSIONAL EXPERIENCE

### Sr. Systems Engineer Leapfrog Online, Evanston, IL

2012-Present

Responsible for monitoring, maintaining and improving the system performance, reliability and security of business critical, customer-facing infrastructure.

- · Acted as operations/technical lead in support of the ongoing development of multiple selling platforms
- · Participated in the planning and successful execution of a large production data center migration with minimal downtime
- Provided in-house training to cross-functional audiences, covering topics such as:
  - · Nagios configuration and custom plugin development
  - Puppet best practices, workflow and testing
  - Kibana/Grafana dashboard creation and data analysis
  - SSL/HTTPS, DNS and domain registration
- Shepherded a custom instance of GitHub's Hubot, used heavily for automated deployments, alerting, orchestration of routine system upgrades and much more (Coffeescript, NodeJS, Ansible)
- Designed, developed and implemented a self-service process for updating BIND DNS records using a standard application deployment workflow (Python, YAML, Capistrano, Jenkins, BIND)
- Assisted in the creation and maintenance of more than 80 custom and 3rd party Puppet modules, custom parser functions, providers and facts (Ruby, PuppetDB, rspec-puppet, beaker)
- · Automated local Puppet development tasks, such as:
  - unit and acceptance testing
  - · catalog differencing based on local changes
  - rendering of individual templates
- Developed a lightweight Puppet dashboard replacement with custom capabilities (Python, Flask, YAML, JSON)
- · Combined Packer, Ansible and Puppet to fully automate provisioning of a disaster recovery environment in a reproducible way
- Managed a Nagios instance with more than 1800 service checks, filled gaps in monitoring by writing custom plugins and improved alert messaging to facilitate incident response
- Transitioned to standard development practices for all Ops-only software projects, as appropriate, encouraging contributions from other teams (GitHub Enterprise, git, make, Bundler, virtualenv, nodeenv)
- Designed and implemented high-availability clusters for both RabbitMQ and Redis
- · Created standardized Docker images for use in local testing by fellow software and systems engineers

## System Administrator Parity Systems, Evanston, IL

2005-2012

Responsible for the installation, configuration, maintenance and documentation of all hardware and network services, for use by internal staff and clients in support of software (web) development projects.

- Implemented a comprehensive network and performance monitoring solution, more than 20 custom checks for unusual hardware and services, and a utility framework for rapid development of new service checks
- · Constructed a server-room climate monitoring system for less than \$100
- Created a Debian-based USB/LiveDVD disaster recovery environment which included DNS/DHCP, PXE, clonezilla, wiki, Puppet and backup of application source code and data
- Built an immutable Live CD-ROM image to provide distributed PDF conversion services for consumption by internally hosted Java web applications
- Installed and maintained the company wiki as its primary contributor, providing documentation of critical business systems.

#### IT Manager RS Industrial, Buford, GA

2000-2005

- · Researched, recommended and purchased new technology for the entire organization
- Supervised the development e-commerce websites used by both wholesale and retail clients; contributing code to integrate with payment gateway service
- Cooperated in planning and oversight for the construction of a second location, including the design and installation of combined network
- · Scripted weekly sales reports from disparate data sources, formerly an error prone and lengthy manual process
- Combined several common open source tools, to create a voice-call notification system (Nagios, festival text-to-speech, Python, xmlrpclib, pyserial)