

## Daniel Austin Hoherd

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### Profile

Systems administrator with 20+ years of unix and linux experience, 15+ years of enterprise networking experience, and 10+ years of experience managing production multi-site heterogenous employee facing and customer facing environments on bare metal, virtualized, containerized and hosted platforms.

### Technical Skills

- Experience installing and maintaining a variety of linux and unix operating systems on a variety of hardware and cloud platforms.
- Configuration management design and maintenance with CFEngine 3, and Puppet 3 and 4, Ansible 2.
- Networking experience with ipv4 and ipv6, mostly on the LAN side, including a variety of common associated tools and protocols.
- Revision management systems such as Git and SVN, including administration of suites like Github Enterprise and Gitlab.
- Experience scripting and automating tasks using shell, ruby, python, perl, php.
- Experience with enterprise storage systems such as ZFS, MogileFS, GlusterFS, ceph and S3.
- Moderate SQL database administration and design with MySQL, postgres, SQLite and sqlalchemy.
- Monitoring and alerting experience with Nagios, Ganglia, Sensu, SignalFX, PagerDuty, etc..
- Moderate Google Cloud and AWS experience.
- Experience with virtualization and container systems like Docker, Kubernetes, Vagrant + Virtualbox, and VMware.

### Employment History

#### Renovo Auto

#### DevOps Engineer / Campbell, CA / February 2018 - February 2020

- Docker: Build containers for CI pipelines, base containers for app building, application containers for prod deployments, etc.
- Run customer workshops on how to develop for the Renovo platform, including how to use Docker and Kubernetes
- Implement CI via Gitlab CI running in Google Kubernetes Engine
- Google Cloud: Builder, GCR, GKE
- Ansible: Write new roles (ansible-galaxy style), test roles using Molecule + docker, manage static inventory, write dynamic inventory
- Implement udev rules and scripts to hand off inserted disks to kubernetes cluster

- Implement REST API using flask-restx + PostgreSQL
- Configuration and maintenance of compute clusters that were installed in vehicles for Renovo engineers and third party customers
- Juniper L1-L3 networking, cat6, fiber optic, DAC, BGP
- Ceph installation, maintenance, connection to k8s cluster via rbd-provisioner
- Train and mentor interns and other team members
- Create design docs for proposed infrastructure changes
- Create runbook system using mkdocs. Write and maintain runbooks
- Videography and photography of products and team
- Final Cut Pro editing of product videos for external release and investor demos

## **Skyhigh Networks / McAfee**

### **Senior DevOps Engineer / Campbell, CA / November 2017 - February 2018**

- Maintain FedRamp Certification through security patching new vulnerabilities in GovCloud AWS region.
- Participate in on-call rotation with SRE team.
- Discover areas for improvement in alerting and automation.
- Host management in Xen, AWS and bare metal.

## **Yelp Inc.**

### **Site Reliability Engineer / San Francisco, CA / November 2015 - June 2017**

- Maintain .deb and .rpm package build system comprised mainly of git, GNU make, bash, Docker and Jenkins.
- Deprecate Ubuntu Hardy, CentOS 5 and CentOS 6 packages and associated Puppet 3 code.
- Write and maintain Puppet 3 code with future parser compatibility for Puppet 4 migration.
- Expanded Terraform modules and Puppet modules for creation of developer environment in AWS.
- Decommissioned a developer datacenter environment with safe and well communicated removal of configuration management code, DNS records, server configs, etc., and migration of developer environments to new hosts.
- Wrote and improved shell, ruby and python scripts used in production and development operations.
- Triage and repair systems against security threats.
- Maintenance and migration of in-house services from older Ubuntu versions on pre-PAAS architecture to modern Ubuntu versions on PAAS architecture.
- Improvements to Hubot IRC bot service and integrations.
- Work with other teams to maintain or deprecate software related to their services' needs.
- Contribute fixes to FOSS codebases when possible.
- Troubleshoot old hardware and shuffle services and roles around as needed.
- Maintain documentation for ever-changing in-house systems and software.
- Participate in on-call rotation.

## **Zoosk Inc.**

### **Senior Linux Systems Administrator / San Francisco, CA / June 2013 - October 2015**

- Lead engineer for configuration management design, documentation and ongoing maintenance.
- Migrated from Puppet to CFEngine 3.4. Instructed peers on how to use the new system. Wrote extensive documentation and example code. Wrote bundles for many technologies.
- Upgraded CFEngine 3.4 to 3.6 in three datacenters. Began work on migration to CFE 3.7.
- Began work on Vagrant development environment for CFEngine code design.
- Implemented CFEngine cluster status dashboard in Splunk 6.
- Planned and migrated from SVN to Github Enterprise. Instructed peers on the new workflows. Wrote relevant documentation.
- Migrated from Ubuntu 8 & 10 to CentOS 6. Began work on upgrade to CentOS 7.
- Migrated dev environment from bare metal to kvm.
- Redesigning in-house yum repository structure and flow between datacenters, including upstream mirrors of CentOS and EPEL, an in-house repository, and snapshotted backups for quick reversion during unexpected interruptions due to package updates.
- Wrote and improved shell, ruby and python scripts used in production and development operations.
- Optimized existing kickstart system to be datacenter independent and use in-house repositories.
- Maintenance of 300TB MogileFS cluster.
- Redesigning worker job init from runsv to upstart. Began work on migration to systemd.
- Wrote several Ganglia gmetric scripts for in house services.
- Redesigning DHCP configuration system, automating creation of ISC DHCP configs from mysql backed machine inventory database.
- Participated in on-call rotation.

## **Groundwork Inc.**

### **Senior Infrastructure Engineer / San Francisco, CA / August 2010 - March 2013**

## **SugarCRM Inc.**

### **IT Superhero / Cupertino CA / December 2005 - May 2009**

## **Actiontec Electronics Inc.**

### **Lead QA tech / Sunnyvale, CA / August 2001 - December 2005**

## **References**

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