

Opower / Oracle

San Francisco, USA

SOFTWARE ENGINEER, INFRASTRUCTURE AND OPERATIONS

January 12, 2015 - May 23, 2016

- Authored and refactored Puppet manifests to converge data center localized hardware nodes to prepare them as Proxmox hosts
- Co-designed a distributed file system storage array using Ceph to act as shared storage layer for Proxmox VMs
- Designed resilient high-availability MySQL cluster using Heartbeat to float a VIP between multiple masters
- Maintained several applications deployed via Proxmox as VMs that were converged via Puppet
- Wrote a tool in Ruby to migrate employee objects from FreeIPA to Active Directory
- Migrated datacenter applications and Proxmox VMs to Oracle Cloud

InsideVault

San Carlos, CA, USA

DEVOPS ENGINEER

February 24, 2014 - January 15, 2016

- Managed MongoDB cluster used by SEO optimization platform
- Used Jenkins to build testing and deployment pipelines for Scala applications using sbt
- Wrote Chef cookbooks for deploying Apache Mesos cluster members to EC2
- Managed Apache Mesos cluster that was used for distributed batch processing
- Built log ingestion pipeline for Apache Mesos batch jobs to self-hosted Kibana/Logstash/ElasticSearch

Apollo Group

San Jose, CA, USA

SYSTEMS ADMINISTRATOR

January 23, 2012 - January 10, 2014

- Assisted with migration of Java services from physical data center to AWS
- Wrote a custom deployment web UI using Ruby, Padrino, and jQuery to integrate Chef, AWS EC2 nodes, and Haproxy to serve as the main deployment interface for over 100 engineers for dozens of Java based microservices
- Built Chef environment to administer hundreds of EC2 nodes and wrote cookbooks to handle hosted proxies, EC2 nodes, and databases
- Wrote scripts and application cookbooks in Ruby to integrate Java services with AWS dependencies
- Rewrote the aforementioned deployment tool as part of a migration from AWS to a data center platform running VMWare VSphere

Extracurricular Activity

Code for America

Code for San Jose, San Jose, CA

CORE MEMBER

Jun. 2010 - Jun. 2017

- Mentored and onboarded community engineers and local college students into the Code for America organization
- Project lead and main contributor for Calidrought - a Node.js API that collected drought information from the U.S. government
- Contributor to [Adopt-a-Drain](#) - a platform for citizens to adopt a storm drain and keep it clean
- Helped run the chapter through various volunteer activities like managing the treasury and running events

Portfolio

- [AWS CDKTF Example](#) - A reference AWS architecture that deploys an EKS cluster running ArgoCD and Karpenter. Built using the TypeScript version of Terraform CDK
- [Find a Home](#) - A Rails application to help Bay Area natives navigate a high cost rent market
- [Calidrought](#) - A Node.js API that aggregated data from a variety of government agencies and presented it for data visualization
- [BookshelfBot](#) - An Elixir based Discord bot that queries books and displays them inline to chats. Actively maintained for a few dozen Discord servers as an official bot
- [OnAir](#) - A Golang client/server pairing that controls whether or not a radio station 'onair' sign is 'lit up' dependent on whether or not a user is part of a Discord voice channel
- [Blog](#) - My personal blog hosted on a Nomad orchestrated homelab server where I write about cloud, programming, and homelabbing. Homelab also hosts my personal [git server](#) where some other personal projects are kept

Hobbies

- Board games, rock climbing, science fiction/fantasy books, table top RPGs, programming, 3D printing, guitar, electrical engineering/arduino

Skills

- Programming languages: Go, Elixir, TypeScript/JavaScript/Node, Python, Ruby, Groovy, SQL
- Linux: containers, Docker, TCP/IP, DNS, ZFS, eBPF
- Configuration management systems: SaltStack, Chef, Ansible, Puppet
- HashiConf tools: Terraform, Vault, Consul, Nomad, Packer
- Cloud providers: AWS, GCP
- Products: Jenkins, Dagger, Kafka, Prometheus, Grafana
- Orchestration systems: Kubernetes/k8s, AWS ECS, Mesos, Nomad
- Kubernetes products: Helm, AWS Load Balancer Controller, ArgoCD, Karpenter

Resume Source Code

- <https://git.howdoicomputer.lol/howdoicomputer/resume>