Zane Williamson — zane.w@hey.com / github.com/sepulworld

15 years experience designing and implementing automated, secure and reliable systems. Strong communication and technical skills on a variety of platforms. Focusing on reusability, knowledge sharing, and pair-infrastructure coding. I have experience writing applications in Python and Go leveraging both Serverless and Kubernetes in production.

Senior Staff Site Reliability Engineer, Varo Bank

June 2022 to Present

- Work across all engineer teams remove kube2iam and use proper AWS client auth
- Implement SLO/SLIs for multiple engineer platforms
- Enable cluster autoscaling in production to increase reliability and reduce costs
- Build Terraform modules used across multiple platform and engineering teams
- Automate EKS module test automation to validate cluster changes
- Migrate Helm deployments to ArgoCD

Senior Staff Engineer, Flexport

March 2021 to June 2022

- Designed and built Flexport infrastructure on Kubernetes
- Terraform AWS + Helm Provider driven EKS setups
- Secure access to K8s platform via Teleport
- Github Actions driven CI/CD for infrastructure and application automation
- Python CLI for pipeline entry point
- Terraform modules to allow rapid tooling iteration
- Focused on building team skills and collaboration via pair programming

Principal Engineer, Zillow

October 2015 to June 2021

- Built a Python Serverless API and collection subsystem for AWS network stack information
- A lead contributor to the k8s bloomberg/solr-operator application
- Designed and implemented core components of Gitlab CI/CD pipelines at Zillow
- Designed a Kubernetes config secret store and open sourced (hyperkube)
- Kubernetes production infrastructure and CI/CD setup for www.trulia.com
- Kubernetes Nginx-ingress and Istio routing and traceability layer
- AWS Lambda driven Elastic MapReduce (EMR) workflows on AWS
- Terraform driven configuration and setup for Kafka, Zookeeper
- Implemented reusable Terraform modules for AWS infrastructure configuration automation
- Envoy sidecar proxy for Varnish caching
- Istio sidecar and platform for request tracing, traffic shaping and mutual TLS security

DevOps Engineer, GeoRiot (contractor, remote)

April 2013 to April 2018

- Python driven Let's Encrypt cert generation and multi-region HAproxy deployment system
- Nomad + Docker microservice production deployment across multiple cloud providers.
- Contributed to open source Puppet MongoDB module
- Puppetize and network multiple RabbitMQ clusters, RabbitMQ Shovel
- FPM cookery build scripts, and Makefiles to build Deb packages

Sr. DevOps Engineer, Machine Zone

March 2014 to October 2015

Operations Engineer, Mochi Media

July 2012 - March 2014

Operations Team, GoGrid

Jan 2010 - July 2012

System Administrator, LiquidWeb

Feb 2007 - Jan 2010

Open Source contributions

hyper-kube-config https://github.com/zillow/hyper-kube-config (API and secure storage k8s configs)
dinghy-ping https://github.com/silvermullet/dinghy-ping (k8s network debugger and streaming logs)
deadman-check https://github.com/sepulworld/deadman-check (Monitoring companion for Nomad)
cidr-house-rules https://github.com/trulia/cidr-house-rules (Python Serverless API and collection system)
aptly-cli https://github.com/sepulworld/aptly_cli (cli interface for Aptly package server)
TFSOA https://github.com/sepulworld/tfsoa (A dashboard that centralizes disparate TF states)

Speaking Events and Publications

Terraform Modules and Continuous Deployment: https://goo.gl/UbNe4O
Optimizing our Workflow with AWS: https://www.trulia.com/blog/tech/optimizing-workflow-with-aws/
Trulia Open Sources Serverless Application https://www.trulia.com/blog/tech/trulia-open-source/