# Mark Ballew

ballew@sublinear.net San Francisco, CA

https://www.linkedin.com/in/ballew/ https://github.com/markballew

#### **OVERVIEW**

Infrastructure Engineer with 10+ years experience in large scale automation, devops, and security.

### **SKILLS**

Cloud Infrastructure Terraform, AWS, Linode, OVH, Hetzner, Bare metal

**Configuration Management**CI/CD
Ansible, Chef, Docker, Containerd
Github Actions, Jenkins, TeamCity

Monitoring and Logging Spunk, Elk, CloudTrail, Logstash, Elasticsearch, Wavefront

**Database** Mysql, Maria DB, Percona DB

# **WORK EXPERIENCE**

Spookyfox 10/2018 - present

CEO San Francisco, CA

 Built out Terraform templates for clients using Atoms, allowing clients to stamp out large AWS infrastructure projects with more visibility and less complexity, reducing time to deploy by days

- Built Ansible playbooks to reduce the time developers needed to get their environment up to minutes
- Research OpenAI API and llama to get developers up to speed in a day on ChatGPT, artificial intelligence

Okta 08/2015–10/2018

Principal Devops Engineer

San Francisco, CA

- Helped build security devops team that reduced the amount of audit findings 90%
- Rewrote Terraform deploy and models that reduced new builds from months to days
- Created Ansible Python modules to support canary releases in production which reduced regressions by half
- Built repeatable processes with DBs and Chef to make dev similar to prod, decreasing the time in one quarter
- Created a PKI audit infrastructure to audit certificates and keys, finding was over half admin accounts idle

Norsecorp 08/2015 – 08/2016

Senior Operations Engineer

San Mateo, CA

- Reconfigured 1000 machine data center networking, layout, racking; reducing troubleshooting time in half
- Introduced Salt, built a deployment pipeline for new servers which allowed new products to launch in a week
- This included the famous "Norse attack map" which my pipeline fixed downtime

Monotype Imaging 08/2011 – 08/2015

Systems Architect

Migrated from bare metal to AWS, reducing costs by \$10k/mo, with no downtime

San Francisco, CA

- Built caching cluster using Varnish, reducing font farm renders from seconds to microseconds

Oracle Fishworks 05/2010 – 05/2011

Senior Hardware Engineer

San Francisco, CA

Research & built SunStorage development data center, 120 disk arrays, 400TB, reducing developer deploy times

Technorati Media 05/2008 – 05/2010

Senior Systems Administrator

San Francisco, CA

Migrated multiple 1000 node data centers to one and AWS to reduce costs by half

Wells Fargo 05/2007 – 05/2008

Senior Systems Administrator

San Francisco, CA

Built IDM deployment systems to eliminate one time application and system logins which increased security

# University of California, OP

08/2005 - 08/2007

Senior Systems Administrator

Oakland, CA

Managed UC datacenter including payroll and the library, introduced Linux which reduced AIX costs millions

### **Desert Research Institute**

08/2003 - 08/2005

Senior Systems Administrator

Reno, NV

Built a HPC and graphics visualization lab that was key to climate scientists publishing papers for NSF

## **EDUCATION**

## University of Nevada, Reno

Dec. 2000

B.S, Computer Science

Reno, NV

## **VOLUNTEERING**

• Co-founder of Chatresearch, a 600 member non-profit to get grants for member's open source projects.