

# Brandon Zimmerman

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## CORE COMPETENCIES

Go, Kubernetes, Cloud Infrastructure, Python, Bash, C#, Java, Perl

## WORK EXPERIENCE

**Twitter, Remote, USA** — Staff Site Reliability Engineer

October 2018 - Present

- Tech Lead for 3 years. Led the adoption of Golang, several software engineering processes/methodologies within my team such as agile/scrum and Basecamp's maintenance sprints.
- Automated the Kubernetes cluster lifecycle with Cluster API and a forked [Metal3.io](https://github.com/brandonz/metal3). Successfully reduced cluster creation time from 4+ weeks to 2 hours. Served the following roles: architect, project lead. Delegated/prioritized work for multiple Staff-level SWEs (among others), coordinated implementations across multiple teams, and trained + paired with co-workers on Kubernetes/Metal3/Golang.
- Led/architected a secure disk erase solution (in Python) that successfully saved over \$4M in OpEx costs.
- Led/architected/implemented fleet-wide encryption at rest with LUKS.
- Maintained Twitter's in-house Python-based baremetal provisioning stack, participated in our team's 24/7 on-call rotation.

**Intel, Chandler, AZ** — Systems Programmer

February 2011 - October 2018

- Led/architected/implemented an IaaS/PaaS portal using VMWare ESXi, and several RDBMS (Python for API, Angular for front end).
- Deployed and operated Openstack with CEPH scale-out storage at 9+ datacenters.
- Deployed Kubernetes and Rancher, and moved critical services/applications to containers including Apache Kafka, Elasticsearch, Logstash, and Kibana.
- Performed file system analysis on design workflows to identify opportunities to eliminate unused files and determine which files to compress, which led to a \$10M+ per year savings.

## EDUCATION

**Arizona State University, Tempe, AZ** — Master of Computing Studies, 4.0 GPA

Specialization: Software Engineering

May 2013

**Arizona State University, Tempe, AZ** — Bachelor of Applied Science, 4.0 GPA

Specialization: Computer Systems Administration with Unix, Cybersecurity

May 2010