

# andrewschwartz

senior software engineer

## contact

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## fav. languages

♥ Golang  
Python

## fav. tech

Kubernetes  
PostgreSQL  
Prometheus

## languages

English native  
Japanese fluent

## quick stats

29 years old  
Golang enthusiast  
Kubernetes advocate  
Cloud native  
Scalable systems  
B.S. Comp. Sci, '13  
CT → NY → JP ↔ FL

## experience

**Dec. 2017 -- Present**

**IBM Cloud Databases**

Japan/USA (remote)

*Senior Software Engineer*

Architect and lead platform engineer of the next-gen DBaaS offering on IBM Cloud, modernizing the Compose suite of databases on Kubernetes. Thought leader and advocate within the company for Kubernetes and the Controller pattern.

- Lead architect of declarative Controller based platform running 40k+ instances of 10+ types of databases with high availability on Kubernetes
- Represent IBM Cloud Databases as architect at compliance audits (SOC, PCI, FS Cloud, etc), ensuring systems are well understood and compliant
- Automated management of workers within Kubernetes clusters to improve utilization and reduce overhead, leading to a 30% decrease in hardware costs
- Architected system to create on-demand isolated environments within a cluster using a shared worker pool and custom worker scheduler
- Introduced LUKS encryption using a cloud KMS w/ BYOK and in-place expansion of iSCSI volumes through a custom flexvolume driver
- Implemented elastic zero-downtime vertical scaling for databases on Kubernetes
- "Level 3" SRE, responsible for debugging and remediating escalated issues, requiring deep knowledge Kubernetes workers, Linux, and database instances,

**Oct. 2015 -- Dec. 2017**

**Compose.io (acquired by IBM)**

Japan/USA (remote)

*Platform Engineer*

Engineer on the team building the platform to orchestrate hundreds of thousands of stateful containers running Compose's suite of databases (PostgreSQL, etcd, Redis, MongoDB, RabbitMQ, and more) on a variety of public and private cloud environments.

- Built out new etcd3 and ScyllaDB services on Compose, used to back several key internal services on IBM Cloud, tested in Travis CI, built into container.
- Refactored and maintained open source Transporter ETL tool, made available as a free service to easily load data from external databases into a Compose instance, increasing customer acquisition

**Aug. 2013 -- Oct. 2015**

**Gengo (acquired by Lionbridge)**

Tokyo, Japan

*Full Stack Software Engineer*

Engineered Gengo's microservice architecture serving hundreds of millions of requests per day on AWS.

- Advocated for and redesigned monolithic PHP API to microservice Golang-based architecture, cutting average response times by 10x and reducing availability events by 90%
- Spearheaded event-driven architecture shift, providing an extensible solution for separating application and async concerns

## interests

**professional:** golang, kubernetes, operators / controllers, SaaS, DBaaS, software architecture, scalability, observability **personal:** tennis, [HN](#), japan, [/r/programming](#), travel, gaming