

EXPERIENCE

- **Yelp** San Francisco, CA
Data Reliability Engineer May 2016 - December 2017
 - **MySQL Database Server Auto Scaling:** Levering on existing tooling that existed inside Yelp, I built a system that would automatically scale all of our MySQL database clusters based on CPU usage and average query time.
 - **PostgreSQL Performance Optimization:** I optimized the PostgreSQL databases of Eat24 and SeatMe, two of Yelp's subsidiaries, which resulted in better performance and fewer AWS instances needing to be used.
 - **SignalFX Maintainability:** Migrated all of the DRE team's SignalFX charts and detectors to use [SignalForm](#), thereby moving all the definitions into maintainable code.
 - **MySQL Specific AMI:** Using Packer I developed a MySQL specific AMI which allowed new database hosts to be ready for production in 1/4 of their original bootstrap time.
 - **Other Achievements:**
 - * Upgraded MySQL across all environments to the most recent major version.
 - * Wrote a tool that would compare MySQL binary logs between two version of MySQL.
 - * Leveraged data contained in Splunk to write a predictive disk space alert for our MySQL servers.
 - * Deployed VividCortex as a database monitoring solution, and taught courses on how to use its data.
- **Pandora Media, Inc** Oakland, CA
Database Administrator May 2013 - April 2016
 - **PostgreSQL Automated Backup Testing:** I built a solution that would backup our 200+ PostgreSQL databases, restore them to verify backup was valid, and attach them to the appropriate replication stream to make sure we could use the backup in a DR scenario.
 - **Automatic Setup of PostgreSQL Replica Servers:** DBAs at Pandora originally would manually configure replica servers, and I deelped a solution was to use our service discovery to figure out the correct service to bootstrap from, and then to connect to its replication stream.
 - **PostgreSQL Performance Analysis Tooling:** I built a framework that would gather internal PostgreSQL metrics into a time-series database so that DBAs and Developers to easily query database health and performance.
 - **Other Achievements:**
 - * Major upgrade of PostgreSQL across our entire environment.
 - * Hadoop and Hive administration.
- **Rentrak** Portland, OR
Database Administrator August 2011 - May 2013
 - Decreasing PostgreSQL backup time by a factor of ten.
 - Implementing read-only database clones by leveraging NetApp snapshots.
 - Migration from physical PostgreSQL servers to HA VMware/NetApp environment.
 - Developed and delivered internal auditing tools that decreased the DBA workload.
- **Elemental Technologies** Portland, OR
Software Test Engineer (Contract) January 2011 - June 2011
 - I worked on testing Elemental's two main products for compliance to many different video standards. On a daily basis I was encoding and watching different video files, as well as watching live video. I was also responsible for the performance testing on Elemental's major releases.

CONFERENCE PRESENTATIONS

- **PostgreSQL to MySQL: A DBA Perspective - Percona Live 2017:** My retrospective after one year of transitioning from a PostgreSQL DBA to a MySQL DBA.
- **Using pg_repack to Bulk Delete Data - Postgres Vision 2016:** A 15 minute presentation about using pg_repack to bulk delete data from highly contested tables.

TECHNICAL SKILLS

- **Technologies:** PostgreSQL, MySQL, Puppet, AWS, Terraform, Packer, SignalFX, Splunk, VividCortex
- **Languages:** SQL, Python, Bash