

# Zachary Lopez

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## Technical Skills

Python, Javascript, Django, Postgres, Redis, SQL, AWS, ElasticSearch, AngularJS, Git, Loggly, NewRelic, Sentry, OpsGenie, HTML, CSS

## Professional Experience

**FiveStars**, Software Engineer | [www.fivestars.com](http://www.fivestars.com) 2015-present

- Manage and lead the infrastructure team responsible for messaging, the primary database, and streaming architecture.
- Design features and fixes to send over 1.5 MM messages (sms, push, email) per day.
- Monitor issues and identify solutions for production load on the master database.
  - Custom cursor to append api endpoint or task name to sql query
  - Custom paginator to move count load to follower for all api requests
  - Shard primary database to move messaging load for throughput and iops pressure
- Maintain and develop features for Angular web application served by a Django backend.
- Implemented a Redis caching layer to remove row contention and stress on the master db.

## Project Experience

**Q-rad.io**, Full Stack Developer | *Rapid music discovery engine powered by machine learning.*

- Utilized web workers to offload computational load of machine learning based on user interaction.
- Implemented web-based music player in HTML5 and React to stream Spotify tracks.
- Configured Spotify authentication to validate users and store user interaction data.

## Other Experience

**Satellite Affordable Housing Associates**, Director of Property Management 2010 - 2014

- Maintained fiscal integrity of 55 properties with \$26MM in budgets and \$3.5MM corporate.
- Turned over 50% of staff (40 people) within the first year to increase staff accountability and morale. Ensured company success by handling exits directly and recruiting all replacements.
- Merged two fully functioning Property Management companies with 80 and 35 staff each. Delivered team through culture change by anticipating dissension and assuaging fears through constant communication.

## Education

**Hack Reactor** 2015  
Advanced Software Engineering Immersive

**UC Davis** 2004  
BS - Computer Science and Computer Engineering

## Personal

I am an introvert who enjoys public speaking. I read leadership books for fun. People and people's potential fascinate me; I am driven to help unlock those around me.