

# Spencer Sullivan

(512) 922-2434 | sas@fsullivans.net | Austin, TX | spencer-sullivan.com

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## CAREER PROFILE

Senior Software/Data/ML Engineer with 6+ years of experience in building scalable applications that rely heavily on data and modeling. Currently helping Spiceworks with Petabyte scale data pipelines and applications.

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## KEY SKILLS

**Platforms:** Amazon Web Services (AWS), On-Premise Cluster

**Big Data Tools:** Hadoop, Hive, Spark, Kafka / Kinesis

**Databases:** Snowflake, Presto, Athena, Redshift, Postgres, Redis, Dynamo

**Programming Languages:** Python, Go, Ruby, SQL, HTML, JS

**Data Pipeline Frameworks:** Airflow, Luigi, Glue, Matillion

**Other:** Docker, Git, Gitlab, Kubernetes, DataDog, Tableau, Lambda, SQS

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## EXPERIENCE

**Senior Software Engineer, Spiceworks, Austin, TX** 2010 - Present

**Real Time Bidder** - Set of services for intelligently bidding on ad inventory

- Wrote multiple low-latency services (10ms including network latency)
- Engineered web server that scaled up to 1 billion requests per day
- Productionized machine learning model to compute bids

**Business Identity Graph** - Database of businesses who visited Spiceworks

- Generated graph from millions of data points from several sources
- Designed data model where graph was iteratively updated in-place

**Account Intelligence** - Dashboard showing businesses and their interests

- Architected and built data pipeline to leverage business identity graph
- Integrated Tensorflow model from data science team into pipeline

**Pixel Tracking** - Web-tracking service integrated with 100's of businesses

- Led rewrite of service
- Integrated open-source browser fingerprinting

**Segmentation service** - Puts people into segments based on the actions

- Wrote jobs to send billions of events into system every month
  - Debugged and resolved problems around user-identity mappings
  - Worked with Data Science to incorporate intent modeling
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## EDUCATION

**BS in Computer Science**, University of Texas at Austin

2011 - 2014

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