**Spencer Sullivan**

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| **Summary** | Software / Data / Machine Learning Engineer with 7+ years of experience in building business-critical applications that rely heavily on data and modeling. Currently helping ScaleFactor to automate accounting for small businesses. |
| **Ideal Job** | I am looking for opportunities in the San Diego area (or remote) where I can significantly impact the business, work closely with researchers / data scientists to develop, productionize, and scale models, and continually learn and grow as an engineer. |
| **Key Skills** | **Platforms:** Amazon Web Services (AWS), Google Cloud, On-Premise Cluster  **Programming Languages:** Ruby (Rails), Python, Go, SQL, HTML, JS (Ember)  **Databases:** Snowflake, Presto, Athena, Redshift, Postgres, Redis, Dynamo  **Data Tools & Frameworks:** Airflow, Luigi, Glue, Hive, Spark, Kafka / Kinesis  **Other:** Docker, Git, Kubernetes, DataDog, Tableau, Lambda, SQS |
| **Career** | **Senior Software Engineer** 2019 - Present  *ScaleFactor, Remote*  Automating small-business accounting with full-stack web development and ML pipelining.  **Senior Software Engineer** 2017 - 2019  *Spiceworks, Austin*  Architected and developed Petabyte-scale data pipelines feeding ML models.  **Software Engineer** 2014 - 2017  *Spiceworks, Austin*  Wrote business-critical, high-volume, low-latency systems, mostly in Golang.  **Software Development Intern** 2010 - 2014  *Spiceworks, Austin*  Learned how to work in agile teams and translate business requirements to code. |
| **Education** | **BS in Computer Science**, *University of Texas at Austin* 2011 - 2014 |
| **Experience** | **ML for Bookkeeping** *An ML workflow for automatically classifying bank transactions*   * Reduced need for humans to classify transactions manually * Refined frontend, backend, and modeling code for production use * Analyzed model performance   **Accounting Report Card** *Self-service health summary dashboard of business accounting books*   * Integrated with 3rd parties to collect and parse accounting reports * Ran analysis to determine healthy accounting patterns * Created portal for calculating and viewing insights   **Real Time Bidder** *Set of services for intelligently bidding on ad inventory*   * Wrote services that respond in under 10ms (including network latency) * Horizontally scaled web server up to 1 billion requests per day * Designed micro-service architecture comprising 10+ services * Productionized machine learning model to compute bids * Helped scale product from $0 to ~$10M in annual revenue * Rigorously tested and wrote monitoring   **Business Identity Graph** *Database of companies who visited Spiceworks*   * Generated graph from millions of data points from several sources * Designed data model where graph was iteratively updated in-place * Resolved business attributes from a connected component of the graph   **Account Intelligence** *Dashboard showing businesses and their interests*   * Wrote data pipeline to calculate purchase intent of businesses * Integrated Tensorflow model from data science team into pipeline * Architected pipeline to leverage business identity graph   **Pixel Tracking** *Web-tracking service integrated with 100's of companies*   * Led rewrite of service * Integrated open-source browser fingerprinting   **Segmentation service** *Puts people into segments based on their actions*   * Wrote jobs to send billions of events into system every month * Integrated with 3rd parties using cookie matching * Debugged / resolved problems around user-identity mappings * Collaborated with Data Science to incorporate intent modeling |