

# Matt Shadish

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## EXPERIENCE

### ENGAGE3 | DAVIS, CA

DEC 2013 - CURRENT

#### Data Science Manager | May 2018 - Current

Engage3 partners with retailers to manage their competitive strategy and Price Image. Our omnichannel Competitive Intelligence Management platform provides accurate competitive pricing data and data science-powered solutions to retailers worldwide.

As the company grew from 10 to 100+ FTE's, I built out Engage3's Data Science and Reporting department to drive and support 15X revenue growth. Key responsibilities include

- Overseeing team of 8+ Data Analysts, Scientists, and Visualization Architects responsible for supporting 67%+ of current annual revenue through DaaS offerings
- Leadership responsibilities include personnel management, hiring, driving technical roadmap, championing company core values, creating Engage3's competitive data product verticals
- Designed, developed, and implemented Comp Shop Optimization service for our CIM programs to balance competitive visibility with budget. Reduced cost of a top-tier enterprise program of in-store shops by over 50% (savings over \$1M)
- Drove 3% of 2018 revenue developing a new analytics offering to reverse-engineer competitor pricing strategies using 1,000,000,000+ data points; methods include unsupervised clustering and classification algorithms with `Scala`, `Spark`, and `Python` on Amazon EMR
- Lead technical account manager coordinating directly with high-value enterprise clients
- Regularly collaborate with CEO and CTO showcasing analytics capabilities to grow enterprise-level customer base

#### Data Science & Analytics Lead | Aug 2015 - May 2018

#### Analytics Consultant | Jun 2014 - Aug 2015

#### Data Scientist | Dec 2013 - Jun 2014

In 2015, Engage3 pivoted to 10-15 FTE's, and I took on the role of Data Science & Analytics Lead, during which time we turned around from a 2-week runway (2015) to closing Series B funding round (2017).

- Designed, developed, deployed, and maintaining pipeline of in-store data collection, management, analysis, and on-demand reporting; achieved via `SQL`, `Python` endpoints, and `bash` scripts. System supported 50%+ of total 2017 revenue; still currently supports 80%+ of in-store shops
- Designed, developed, and deployed fully-automated real-time processing of 1M+ daily crawl records in Amazon Redshift and Amazon RDS Postgres; providing live self-serve competitor visibility to several customers through visuals on top of this data
- Deployed and actively maintained `Python Flask` and `CherryPy` endpoints for external and internal self-service automation on Amazon Elastic Beanstalk and company hardware

### GENERAL ELECTRIC | SAN RAMON, CA

NOV 2014 - MAR 2015

#### Data Analytics Intern

- Created lean search tool in parts database using `elasticsearch`, `Python Flask`, and `JavaScript`

**ATAC | SUNNYVALE, CA**  
Aviation Data Analyst

JUN 2012 - JUN 2013

- Analyzed hundreds of thousands of flight data points to identify opportunities for noise and emissions reduction in standard departure/arrival routes using Microsoft Excel extensively

## EDUCATION

**UNIVERSITY OF SAN FRANCISCO | MS IN ANALYTICS**

2015

Cum. GPA: 3.88

**UNIVERSITY OF CALIFORNIA, LOS ANGELES | BS IN MECHANICAL ENGINEERING**

2013

Cum. GPA: 3.75 • Phi Beta Kappa • Tau Beta Pi

## SKILLS

### TOOLS & TECHNOLOGIES

AWS

EMR • Elastic Beanstalk • S3 • EC2 • boto

Azure

Azure App Services • OneDrive

SQL

Snowflake • PostgreSQL • Oracle (PL/SQL) •

Redshift • MySQL

Analytics Tools

Apache Spark • Tableau • Elasticsearch • Redis

Project Management

Git • Assembla • Proofhub • Basecamp

### LANGUAGES

10,000 lines

Python • SQL

1,000 lines

Bash • Scala •  $\text{\LaTeX}$

100 lines

JavaScript (D3.js) • R

## PROJECTS

### TREASURY YIELD CURVE VISUALIZATION

2017 - CURRENT

<https://github.com/mshadish/yield-curve/>

- Automatic downloading and transforming historical XML treasury yield data nightly using Python, bash
- Using D3.js for interactive visualization of US Treasury yield curve over time

### LENDINGCLUB PORTFOLIO PERFORMANCE ANALYSIS

2017 - CURRENT

<https://github.com/mshadish/lendingclub/>

- Automatically collecting LendingClub personal portfolio data nightly and storing time-series loan data using Scala, SQLite, and LendingClub REST API; Visualizing trends in borrower solvency using D3.js

### AUTOMATED FUND RECOMMENDER

2015 - 2016

<https://github.com/mshadish/morningstar-scrape/>

- Scraped morningstar.com daily to identify and broadcast buy/sell opportunities using Python, cron, SMS

### KAGGLE: DRIVER TELEMATICS ANALYSIS

2015

[https://github.com/mshadish/kaggle\\_drivers/](https://github.com/mshadish/kaggle_drivers/)

- Detected anomalies in driver patterns using bagged logistic regression estimator and random forest in R and Python `scikit-learn`; scored in the top 30% of contestants out of 1500+ with an AUC of 0.85