

# MATT SHADISH

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## EDUCATION

**M.S. Analytics**, University of San Francisco

**Expected July 2015**

Coursework: Databases (relational and NoSQL), Machine Learning, Linear Regression, Time Series Analysis

GPA: 3.97

**B.S. Mechanical Engineering**, UCLA

**December 2013**

Honors: Phi Beta Kappa, Tau Beta Pi

GPA: 3.75

**Certifications:** Base Programming for SAS 9

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## WORK EXPERIENCE

**General Electric**, San Ramon, CA

**November 2014 – Present**

*Data Analytics Intern*

Parts Sourcing Project

- Improved search experience through parts database with elasticsearch and Python Flask
  - Implemented and deployed fuzzy matching of part descriptions as a MapReduce job with Hadoop Streaming
- Company-Contact Mapping Project
- Doubled match rate of company names using Levenshtein distance metrics and custom weightings in Python

**Engage3**, Davis, CA

**December 2013 – August 2014**

*Data Scientist, Category Management Algorithms*

- Managed, designed, and implemented Oracle PL/SQL algorithms to categorize 800M+ retail product records
  - Improved runtime of daily Oracle PL/SQL batch processes by 90% by developing incremental features
  - Modeled regular and promotional pricing among retailers using regression analysis of product prices
  - Collaborated with other members of the Data Science team using TortoiseSVN, Git, and Assembla
  - Began migration to Apache Cassandra with EIS team, leveraging my knowledge of pricing algorithms
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## PROJECTS

**Kaggle: Driver Telematics Analysis**

**January 2015 – Present**

- Establishing driver fingerprints by extracting and creating features from driver positional data using R
- Performing anomaly detection across driver data using a bagged ensemble of logistic regression estimators in Python and scikit-learn

**Kaggle: Sentiment Analysis on Movie Reviews**

**October 2014 – January 2015**

- Classified movie review sentiment using word vectorization and a support vector machine in Python

**Financial Markets Sentiment Extraction**

**September 2014 – October 2014**

- Scraped market opinion sites to understand market sentiment using Python and BeautifulSoup

**Eccentric Exercise Machine Prototype**

**June 2013 – September 2013**

*Founder, Lead Engineer*

- Researched, designed, and fabricated a prototype exercise machine made to facilitate eccentric exercise
  - Drafted and submitted a provisional utility patent application
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## TECHNICAL SKILLS

- Programming Languages
  - Proficient: Python, SQL (Oracle PL/SQL, PostgreSQL, MySQL), R, SAS
  - Familiar: Bash, LaTeX, C++
- Other technologies: Git, elasticsearch, Hadoop Streaming, MongoDB, Apache Solr