

# MATT SHADISH

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## EDUCATION

### Master of Science, Analytics

UNIVERSITY OF SAN FRANCISCO, GPA 4.00

Expected June 2015

### Bachelor of Science, Mechanical Engineering

UNIVERSITY OF CALIFORNIA, LOS ANGELES, GPA 3.75

December 2013

Honors: Phi Beta Kappa, Tau Beta Pi

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## WORK EXPERIENCE

### General Electric, San Ramon, CA

November 2014 – Present

#### Data Analytics Intern

- Demonstrated feasibility of implementation and provided feedback for Calaca front-end to an Elasticsearch platform layered on HDFS

### Engage3, Davis, CA

December 2013 – August 2014

#### Data Scientist, Category Management Algorithms

- Managed, designed, and implemented Oracle PL/SQL algorithms for automating categorization of 800M+ retail product records
- Performed regression analysis of product prices to model how regular and promotional prices compare among retailers
- Collaborated with other members of the Data Science team using TortoiseSVN, Git, and Assembla
- Ran daily reports on user retention rates using PostgreSQL and weekly reports on data quality via Apache Solr queries
- Designed a Python script that relates similar retail products using image comparison to compensate for incomplete data
- Leveraged knowledge of pricing algorithms and worked with EIS team to begin migration to Apache Cassandra

### ATAC, Sunnyvale, CA

June 2012 – June 2013

#### Aviation Data Analyst

- Participated in airport and airspace noise and emissions analysis studies using in-house software and Microsoft Excel
- Provided verbal and written feedback for data analysis procedures, streamlining the process

### Luminous Capital, Los Angeles, CA

April 2012 – June 2012

#### Private Wealth Management Intern

- Compiled revenue and portfolio data, calculated annualized returns, ran quarterly performance reports for clients
  - Managed client account database, maintained data cohesion across multiple sources of client account data
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## RELEVANT TECHNICAL SKILLS

- Programming: Python, R, Linux Shell Scripting, MATLAB, Java, C++
  - Database procedural and query languages: Oracle PL/SQL, PostgreSQL, MySQL, MongoDB
  - Project management/version control: Git, TortoiseSVN, Assembla
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## PROJECTS

### Kaggle: Sentiment Analysis on Movie Reviews

October 2014 – Present

- Prototyping a custom Nearest Neighbors algorithm in Python to classify movie review sentiment (on a scale from 0 to 4)

### Text Analysis for Financial Markets Insight

September 2014 – Present

#### Blog Scraping Lead

- Scraping websites offering opinion-based financial articles using Python to build a body of time-stamped documents
- Designing a Naïve-Bayes classifier in Python to extract general market sentiment from opinion-based articles

### Eccentric Exercise Machine Prototype

June 2013 – September 2013

#### Founder, Lead Engineer

- Researched, designed, and fabricated a prototype exercise machine specifically made to facilitate eccentric exercise
- Design
  - Independently designed a method to provide specialized eccentric exercise via purely mechanical methods
  - Selected specific materials to ensure a factor of safety of at least 1.5 while maintaining cost effectiveness
  - Drafted and submitted a provisional utility patent application
- Fabrication
  - Led a team of 4 in hand-fabricating the prototype, training team members in metal cutting, drilling & tapping holes