MATT SHADISH

San Francisco, CA · (925) 487-1921 · m.shadish@engineering.ucla.edu · GitHub: mshadish

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EDUCATION

Master of Science, Analytics   **Expected June 2015**
  UNIVERSITY OF SAN FRANCISCO, GPA 3.97
Bachelor of Science, Mechanical Engineering   **December 2013**
  UNIVERSITY OF CALIFORNIA, LOS ANGELES, GPA 3.75
    Honors: Phi Beta Kappa, Tau Beta Pi

WORK EXPERIENCE

General Electric, San Ramon, CA   **November 2014 – Present**
Data Analytics Intern
- Designed and implemented features for Calaca, a JavaScript front end to Elasticsearch, to improve usability for end-users searching through GE's parts database
- Created a Python Flask app to supplement Calaca and provide an 'Export to CSV' feature for Elasticsearch

Engage3, Davis, CA   **December 2013 – August 2014**
Data Scientist, Category Management Algorithms
- Managed, designed, and implemented Oracle PL/SQL algorithms to automate 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 Languages
  - Proficient: Python, SQL (Oracle PL/SQL, PostgreSQL, MySQL), R, LaTeX
  - Familiar: SAS, Bash, JavaScript, MATLAB, Java, C++
- Project management/version control: Git, TortoiseSVN, Assembla
- Other relevant technologies: Elasticsearch, MongoDB, Apache Solr

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PROJECTS

Kaggle: Sentiment Analysis on Movie Reviews   **October 2014 – Present**
- Applying word vectorization in conjunction with a Support Vector Machine to classify movie review sentiment (on a discrete scale from 0 to 4) in Python

Text Analysis for Financial Markets Insight   **September 2014 – November 2014**
Blog Scraping Lead
- Scraped websites offering opinion-based financial articles using Python to build a body of time-stamped documents
- Configured a standard 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
- Drafted and submitted a provisional utility patent application
- Led a team of 4 in hand-fabricating the prototype, training team members in metal cutting, drilling & tapping holes