MATT SHADISH

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

EDUCATION

Master of Science, Analytics **Expected June 2015**
UNIVERSITY OF SAN FRANCISCO, GPA 4.00

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

- 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 categorizing 800M+ retail product records
- Improved runtime of daily Oracle PL/SQL batch processes by 90% by developing incremental features
- 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

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

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
  - Used Excel, 3D CAD software, and hand calculations for everything from preliminary calculations to optimization
  - 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
  - Calculated functional strengths of customizable parts from manufacturer Misumi when selecting/purchasing parts
  - Led a team of 4 in hand-fabricating the prototype, training team members in metal cutting, drilling & tapping holes