


ERIC CHANG

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EDUCATION

Northwestern University

June 2017

Bachelor of Science, Industrial Engineering and Management Sciences
Bachelor of Science, Manufacturing and Design Engineering
GPA, 3.47/4.00

WORK EXPERIENCE

Autodesk - San Francisco, CA

June 2016 - Sep 2016

Data Scientist Intern

- Generate and deliver insights from big data collected on Autodesk Fusion 360 software users, frequently presenting findings to non-technical teams to drive business and marketing decisions
- Built and deployed customer classification system with unsupervised machine learning (kmeans, hierarchical clustering) to improve targeted marketing and consumer analytics
- Utilized R and Python for modeling, feature engineering, visualization, and data munging and SQL for querying

Spiegel Research Center - Evanston, IL

March 2016 - Present

Research Assistant

- Implement text mining using R (tm) to analyze causal relationships between product reviews and purchase probability
- Perform feature extraction and data cleaning using SQL/SAS on online marketplace data

Altec Industries - St. Joseph, MO

July 2015 - Dec 2015

Manufacturing Engineering Co-Op

- Identified and implemented \$147,000 annual cost savings on \$260,000 of spend - largest single cost reduction in plant history - by analyzing production data for opportunities to source cheaper materials
- Achieved 2900 hours in annual time savings by sourcing and implementing machines to expedite circuit board manufacturing

LEADERSHIP

3D4E - 3D Printing for Everyone

March 2016 - Present

Founder and President

- Founded Northwestern's first 3D Printing and Computer Aided Design student group, grew club to 15 active members
- Design, organize, and teach hands-on 3D Printing workshops to audiences of 50+ attendees

Toastmasters International

March 2014 - March 2016

Member

- Write and deliver speeches to an audience of 30 members on a regular basis, building confidence and facility with public speaking

PROJECTS AND AWARDS

3rd Place - UChicago Econometrics Contest 2016

- Modeled US Census data, wrote paper, and presented findings to Nobel Prize winning judges, winning 3rd prize

Top 10% - DrivenData Predictive Analytics Competition

- Applied supervised machine learning to predict functional status of water pumps in Tanzania, placing 83rd out of 1300 contestants

3M Invent a New Future USA 2016

- 1 of 10 students chosen nationwide to compete. Recognized for exemplary presentation. (St Paul, MN)

2nd Place - Autodesk Student Expert Design Challenge 2015

- Designed and CAD modeled solution in 48 hours with a team of 3, placing 2nd in entrepreneurship category. (San Francisco, CA)

SKILLS

R, Python, Apache Spark (pySpark)

SQL

Tableau

Git

MOOCs:

CS105x - Intro to Apache Spark

CS110x - Big Data Analysis with Apache Spark

CS120x - Distributed Machine Learning with Apache Spark