



## EDUCATION

- 2017
- NORTHWESTERN UNIVERSITY, EVANSTON, IL**  
Bachelor of Science - Industrial Engineering and Management Sciences  
Minor - Economics  
Kellogg Certificate Program for Undergraduates - Managerial Analytics



## EXPERIENCE

- July 2017 - Present
- SYNCHRONY FINANCIAL, CHICAGO, IL / STAMFORD, CT**  
*AVP, Data Scientist (July 2019 - Present)*  
*Data Scientist, Business Leadership Program (July 2017 - July 2019)*
- Leverage technologies in Hadoop ecosystem (Python, Spark, Hive) to facilitate data-driven decision making through the development of both supervised and unsupervised classification models in areas such as fraud detection and customer satisfaction prediction
  - Using Scala, developed in-house, distributed implementation of Synthetic Minority Oversampling Technique (SMOTE) to enable treatment of imbalanced datasets natively in Spark
  - Developed Python library to automate and standardize common methods and profiling techniques in the model development pipeline to enhance company's speed to market
  - Won first place in company-wide, Kaggle-style data science competition to predict customer calls, beating out over 100 competitors by using an ensemble modeling technique to achieve top-ranked MSE
- June 2016 - August 2016
- SYNCHRONY FINANCIAL, CHICAGO, IL**  
*Data Science Intern, Business Leadership Program*
- Constructed predictive model for call routing; estimated annual savings of \$10.1 MM in operating expense
  - Utilized tools such as Spark and Hive to manipulate and harness large datasets in excess of 5 TB
- June 2015 - August 2015
- GRAINGER INDUSTRIAL SUPPLY, CHICAGO, IL**  
*Technical Product Manager Intern*
- Used analytical skills to drive direction of eCommerce development for agile team
  - Increased mobile app's barcode scanner success rate 138% via implementation of error handling
  - Utilized Adobe Analytics to track conversion metrics and prioritize areas of redesign within Order History and Required Accessories pages of Grainger.com; presented redesign proposals to management team
- January 2015 - June 2015
- UNITED AIRLINES, CHICAGO, IL**  
*Internal Consulting Intern, Continuous Improvement and Enterprise Optimization*
- Implemented new checked bag routing method at EWR (Newark, NJ) to consolidate work and minimize staffing needs
  - Built multiple Excel VBA based tools including: Boeing 757 Boarding Simulation Input Generator, Suggested Staffing Tool, Batch Running Tool, and Short Term Planning Tool Dashboard Summary
- June 2014 - August 2014
- HD SUPPLY FACILITIES MAINTENANCE, NORTHLAKE, IL**  
*Distribution Center Operations Intern*
- Developed optimization analysis procedure for product arrangement on pallets; implementation resulted in 9.47% increase in utilized storage bin volume
  - Created a standard operating procedure for pallet organization that was presented to leadership team for company-wide implementation



## SKILLS AND INTERESTS

**Technical:** Python, SQL, Spark, C++, R, Scala, HTML/CSS, Git, Agile Methodology

**Multimedia:** Adobe Photoshop, Adobe Premiere

**Language:** Conversant in Spanish

**Interests:** Marathon-running, skiing, hiking, soccer, baseball, graphic design