

EDUCATION

- 2022
(Expected) **THE UNIVERSITY OF CHICAGO**, CHICAGO, IL
Master of Science - Computer Science
- 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)
 - Led development, validation, and implementation of a new customer-level behavior score model; Managed stakeholders across Analytics, Technology, Credit, and Model-Risk functions
 - 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 development speed and collaboration among data scientists
 - 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
 - Member of Synchrony's Campus Recruiting team and frequently mentor aspiring data scientists
- 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 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 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

PROJECTS

FANTASY FOOTBALL SCOREBOARD, <https://git.io/JLQF9>

- Created custom scoreboard for a fantasy football league with unique scoring options not available in ESPN; game scores updated in real-time by consuming ESPN API with custom logic layer
- Developed using Flask and deployed via AWS (Elastic Beanstalk, DynamoDB, Cognito)

SKILLS AND INTERESTS

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

Multimedia: Adobe Photoshop, Adobe Premiere

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