

Omar ALShaye

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EDUCATION

University of Chicago | Chicago, IL
Master of Science in Analytics, Data Science

Expected Winter 2020

- **Coursework:** Statistical Analysis, Machine Learning, Optimization, Deep Learning, Data Mining, Business Applications, Data Engineering Platforms, Non-Linear Models, Big Data, Time Series

Rensselaer Polytechnic Institute | Troy, NY
Dual Bachelors of Science in Industrial Management Engineering – Economics

May 2018

- **Honors:** Cum Laude, Rensselaer Founders Award of Excellence, Ray Palmer Baker Prize for Excellence in Systems Engineering, Alpha Pi Mu Honors Society Certificate of Excellence in Industrial Engineering

PROFESSIONAL EXPERIENCE

NIMBL, Techedge Group | Chicago, IL
Data Intelligence Practice – Junior Consultant

June 2019 – September 2019

- Provided predictive analytics solutions for Fortune 500 CPG and Automotive clients; utilizing machine learning, deep learning (computer vision), operations research, and statistical modeling techniques on R and Python
- Built visual dashboards for performance management and resource/financial planning on SAP Analytics Cloud
- Investigated a new SAP Analytics Cloud client solution that integrates R based predictive modeling capabilities

Abbott Laboratories (contract by Hiregenics) | Lake Forest, IL
Supply Chain Operations Intern

May 2017 – August 2017

- Built VBA algorithm to optimize box utilization (N-P problem); reduced average chargeable shipment cost by 29.9%, increased box utilization by 12.1%, reduced average shipment volume by 297.4 inch³
- Performed trend analysis for top tier customers to quantify benefits of order consolidation
- Simulated packing area using Arena; recommendation reduced packing time by 2.8 minutes per unit
- Studied outbound dock using pallet density hourly data; proposed dock composite performance index

RESEARCH EXPERIENCE

Kraft Heinz People Analytics | Chicago, IL
Capstone Project: In and Out Analysis

March 2019 – Present

- Designed a supervised machine learning model to predict employee churn date and likely destination
- Built a supervised machine learning model to predict probability of recruitment success for a given candidate

Shared Vehicle Routing | Troy, NY
Researcher for Professor Jennifer Pazour's OnRout team

May 2017 – August 2017

- Performed shared vehicle routing analysis for startup company OnRout to analyze duplicate effort by couriers
- Suggested optimal level of courier sharing; hypothetical optimal level of sharing increased stops/mile by 28%, decreased total distance travelled by couriers by 19%
- Built simulation TSP model for different couriers operating in a common location

Television Manufacturing Innovation | Troy, NY
Researcher for Professor Kenneth Simons

January 2016 – August 2017

- Code industry-wide model for television receiver manufacturing processes and innovations. Observed 259 manufacturing innovations/processes from 1941 to 1971
- Identify target innovation characteristics yielding maximum economic efficiencies
- Analyze discrepancies and compare results using Excel, Stata, and R

SKILLS AND LANGUAGES

Technical: R, Python, VBA, SQL, MS Office, Tableau, Arena, Julia, SAP, Keras, TensorFlow, Stata, Hadoop, Spark, Neo4j
Languages: English (fluent), Arabic (fluent)

CO-CURRICULARS

Photography: photography-omaralshaye.com; President of UChicago and RPI Photography; Supervised 112 members
Alpha Pi Mu Honor Society: Promote Outreach to I.E Community; President of Rensselaer Chapter 2016-2018