Mason Weld

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Personal Website: https://masonweld.github.io/

SKILLS

Skills: Process Improvement, Data Analytics, Operations Research, Data Visualization, Algorithms

Languages: Python, SQL, Microsoft Visual Basic (VBA), MATLAB, R

Packages: Pandas, NumPy, Matplotlib, GurobiPy, CPLEX, Scikit-learn

Experienced With: MS Access, MS Office, Jupyter Notebook, MS SQL Server, RStudio, Minitab, Tableau

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EDUCATION

Rice University, Houston, TX, USA   Expected Graduation December 2020
Master of Industrial Engineering, GPA: 4.0 / 4.0
Focus on: Operations Research and Data Science

Rice University, Houston, TX, USA   Graduated December 2019
Bachelor of Arts in Computational and Applied Mathematics, GPA: 3.69 / 4.0
NCAA Student Athlete: Men's Golf

EXPERIENCE

Healthcare Systems Engineer Graduate Student Intern   January 2020 – December 2020

Office of Performance Improvement, MD Anderson Cancer Center, Houston, TX, USA

- Contributed to institutional COVID-19 Data Science and Operations Research Initiative by writing SQL queries and Python code to interpret and visualize data for reporting to executive leadership

- Assisted with formulation and implementation of Radiology scheduling optimization model

- Created automated Excel sheets and Macros using VBA for reporting and algorithmic purposes

Business Analyst Intern   May 2018 – August 2018

Vega Energy, Houston, TX, USA

- Created mathematical optimization model for natural gas scheduling and trading activities

- Completed analytics project forecasting natural gas demand in various markets

- Assisted with natural gas scheduling and trading activities

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RELEVANT PROJECTS

Personal Operations Research and Data Science Projects   *Present*

- Collection of code and queries for personal projects hosed on https://masonweld.github.io/

Mathematical Model for Tumor Ablation, *MD Anderson Cancer Center*   August 2018 – May 2019

- Created mathematical model to predict effects of novel ablation technique on liver tumors with senior capstone team

Predicting Golf Scores with Markov Chain Simulations, *Rice University*   January 2018 – May 2018

- Created stochastic model to predict golf scores and matches as a research project

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PROFESSIONAL DEVELOPMENT

Engineering Project Management Certification: *Rice Center for Engineering Leadership*   July 2020

Doerr Institute for New Leaders One-on-One Training, *Rice University*   August 2019 – May 2020

Student Member: *Institute of Industrial and Systems Engineers*   September 2019 - Present

Student Member: *Institute for Operations Research and the Management Sciences*   February 2020 - Present