

Mason Weld

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

SKILLS

Skills: Data Analytics, Operations Research, Data Visualization, Algorithms, Forecasting, Modeling, Machine Learning

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,

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

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 in MATLAB to predict golf scores and matches as a research project

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