Justin Slud
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justinslud.github.io | github.com/justinslud | linkedin.com/in/justinslud
Languages: Python, R, SQL, JavaScript, C++, Stata, HTML
Tools: Pandas, Scikit-Learn, Matplotlib, Numpy, Jupyter, Spark, Bash, Git, Flask, Excel

Education

University of Maryland — College Park, MD
B.S. Mathematics and Economics — Expected May 2021

Experience

U.S. Department of State — Remote
Data Science Intern — August 2020 - Present

Purpose: build web scraping and natural language processing tools for large-scale text analysis

- Lead for building python package of web scraping, API interaction, text processing tools
- Writing HTML and PDF parsing scripts for information and keyword extraction

Serco North America — Remote
Maritime Engineering, Technology, and Sustainment Group
Military Analyst Intern — May – August 2020

Purpose: analyze accuracy of model to predict how long it will take to repair a Navy ship between deployments and suggest ways to improve predictions

- Performed exploratory data analysis, statistical tests, model accuracy review, and design of experiments
- Established framework for testing accuracy of current prediction techniques and suggested new ways to improve project timeline modelling

National Institute of Standards and Technology — Gaithersburg, MD
Applied and Computational Mathematics Division
Virtual Reality Developer Intern — June-August 2019

Purpose: Explore virtual reality user interfaces and build a prototype application to view mathematical surfaces which are used in research

- Created a virtual reality viewer with user interface to interact with Oculus Rift controllers
- Wrote command-line application to convert 3D files into 15 other formats

National Institute of Standards and Technology — Gaithersburg, MD
Applied Economics Office
Economic Analyst Intern — June-August 2018

Purpose: Build on economic analysis to identify which demographics and scenarios would most benefit by purchasing a backup energy source such as a gas generator

- Ran sensitivity analysis and Monte Carlo simulation on cost of sustainable residential energy systems across 40 spreadsheets
- Compiled an annotated bibliography of economic research papers on cost and utility of reliable energy