DANIEL SAVIDGE

Master's Student at RPI

dsavidge02@gmail.com savidd@rpi.edu 860-310-7171 daniel-savidge dsavidge02

EDUCATION

MS Computer Science **Rensselaer Polytechnic Institute**

January 2023 – May 2024 Troy, New York GPA: 3.92

Relevant Coursework: Algorithms, Artificial Intelligence, Computer Vision, Data Science, Machine Learning

BS Computer Science and Mathematics **Rensselaer Polytechnic Institute**

August 2020 – May 2023 Troy, New York GPA: 3.70 - Magna Cum Laude

Relevant Coursework: Data Structures, Database Systems, Graph Theory, Linear Algebra, Operating Systems

EXPERIENCE

Technology Leadership Development Program - Software Engineer **Travelers Insurance**

May 2023 – August 2023 Hartford, CT

- Collaborated on an Agile team to modernize, optimize, and innovate how data products are constructed in the cloud
- Enhanced data quality analytics and anomaly analysis to increase the accuracy of consumer reports
- Significantly reduced execution costs and job runtimes with over 100x speed up of existing code

Technology Service Center Student Consultant **Travelers Insurance (Kelly Services)**

May 2022 – August 2022 Hartford, CT

- Facilitated general support for hardware, peripherals, network connections, and external software
- Ensured customer satisfaction through eliminating the root causes of customers' technical issues

PROJECTS

Graph Neural Networks and Optimization **Rensselaer Polytechnic Institute**

- Utilized graph partitioning and coarsening to distribute data across computational nodes for efficiency and scalability
- Applied graph ordering to label vertices and partitions to facilitate streamlined data processing and analysis
- Orchestrated distributed computations for parallel processing to efficiently complete complex tasks

Data Science and Machine Learning Applications for Fantasy Football

- Created a webscraper to extract data from online sources and transform it into a queryable database
- Performed linear regression and classification methodologies to identify patterns and symmetry in the data
- Implemented machine learning techniques to train and evaluate a predictive model to produce accurate predictions

Computer Vision Tracking and Stroke Classification for Swimming

- Leveraged Kalman filtering and optical flows to track and annotate motion across image sequences
- Designed a method for image segmentation that automatically detected features and derived angle measurements
- Harnessed a lightweight support vector machine to classify different styles from calculated velocity and arm angles

SKILLS

Python Java C++ C SQL MATLAB Linux Git AWS Agile Scrum Cloud Computing

AWARDS AND ACTIVITIES

- Captain RPI Swimming and Diving - 2022/'23, '23/'24
- Academic All-District Team - 2022/'23
- Dean's Honor List - 2020/'21, '21/'22, '22/'23