

# HAILEY TYLER

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## RELEVANT COURSEWORK

### Software Development II

Based in Javascript, HTML, CSS

Spring 2021

- Became familiar with server-side programming
- Independently developed a project that recreated the Oregon Trail
  - Implemented RESTful API's, single page applications using asynchronous client server communication, and database connections

### Data Visualization

Based in R

Fall 2020

- Analyzed visualizations for data and visualization type
- Commented on the aesthetics and evaluate effectiveness of a visualization
- Manipulated data frames in R to generate visualizations

### Applied Statistics

Based in R

Spring 2020

- Demonstrated the ability to make statistical inferences in a variety of settings for or against scientific hypotheses based upon techniques involving confidence intervals and hypothesis tests and likelihoods
- Used R to manipulate data, create simulations, and perform analyses

### Data Mining & Predictive Analysis

Based in IBM SPSS Modeler

Spring 2019

- Explored data mining applications using basic concepts, tasks, methods, and techniques- this includes data exploration and pre-processing, classification, regression, clustering, association, etc.
- Collaborated on a project on Zoo Animal Classification Using CART and Random Trees Models

## HONORS AND AWARDS



#### Dean's List

Marist College

December 2018, December 2019 – December 2021



#### Outstanding Tutor Award

Marist College

Spring 2021

## ADDITIONAL ACTIVITIES

- Dean's Circle
- Residence Hall Council Treasurer
- Marist Math Club
- Marist Chapter of the Association for Women in Mathematics
- The Institute of Electrical and Electronics Engineers Marist Chapter Vice President
- National Society of Leadership and Success
- Marist Campus Ministry

## EDUCATION

### Bachelor of Science, December 2021

Marist College

School of Computer Science & Mathematics

- Applied Mathematics Major with Biology Track
- Data Science & Analytics Minor
- Computer Science Minor
- Presidential Scholarship Recipient
- 3.774 GPA

## SKILLS



## PROJECTS

- Presentation on Newton's Approximation of  $\pi$
- Presentation on Nash Equilibrium
- Presentation on Second Order Differential Equations: Harmonic Oscillators with Modified Damping
- Presentation on Nonlinear Systems in Three Dimensions: A Food Chain Model
- Two-Player Battleship in Python

## WORK EXPERIENCE

### Peer Tutor

Marist College

January 2020 – December 2021

- Tutoring in Mathematics, Data Science & Analytics, and Computer Science courses

### Sacristan

Marist College

January 2020 – December 2021

- Scheduling Lectors and Eucharistic Ministers and assisting and setting up for mass

### Pool Lifeguard

NYS Office of Parks, Recreation, & Historic Preservation

May 2019 – September 2021

- Maintained composure in high pressure lifeguarding situations and followed EAP protocols