

# HAILEY TYLER

@ hailey@nytyler.com

tel: +1 8456081115

in linkedin.com/in/hailey-tyler-a698281b7

github.com/haileytyler

## RELEVANT COURSEWORK

### 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

### 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

### 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

## HONORS AND AWARDS



#### Dean's List

Marist College

December 2018, December 2019 – May 2021



#### Dean's Circle

Marist College

Spring 2019 – Present

## ADDITIONAL ACTIVITIES

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

## EDUCATION

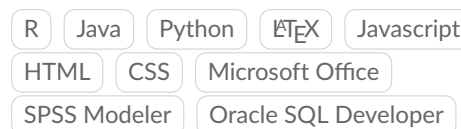
### Bachelor of Science, December 2021

#### Marist College

School of Computer Science & Mathematics

- Applied Mathematics Major with Biology Track
- Data Science & Analytics Minor
- Computer Science Minor
- Presidential Scholarship Recipient
- 3.769 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 – Present

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

### Sacristan

#### Marist College

January 2020 – Present

- 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