Education:

**Carnegie Mellon University, Pittsburgh, PA**

***Masters of Statistical Practice*  August 2019 – May 2021**

* Relevant Coursework: Applied Linear Models, Special Topics in Epidemiology, Text Analysis

***Bachelor of Science, Statistics and Machine Learning* August 2015 – August 2019**

* Presented at United States Conference on Teaching Statistics with Dr.’s Rebecca Nugent and Philipp Burckhardt
* Relevant Coursework: Advanced Statistical Computing (PhD). Machine Learning (Masters), Empirical Research Methods, Statistical Graphics and Visualization, Advanced Methods of Data Analysis, Data Mining

**Seton Hall Preparatory School, West Orange, NJ (High School Diploma) June 2015**

Skills:

**Technical:**

* Systems Programming
* Big Data
* Full-Stack Development
* Object-Oriented Programming
* Git
* Data Mining
* Server Management

**Languages: and Frameworks:** (\* for Development Experience)

* R\*: Shiny\*
* JavaScript\*: node.js\*
* Python\*
* SQL

Projects:

**Delphi COVIDCast** (Researcher) **September 2020 – December 2020**

* Analyzed the effect of state- and county-level mask mandates and compliance under Dr. Alex Reinhart

**ISLE** (Developer, Designer and Tester) **December 2017 – December 2019**

* Collaborated with a PhD student to create a web-based interactive learning solution for introductory statistics classes
* Engineered a point-and-click interface for students to generate HTML statistical analysis reports and scientific posters
* Communicated updated and findings at webinars and conferences

**Stdlib-js** (Developer, Designer and Tester) **December 2017 – December 2019**

* Implemented a JavaScript library to provide state-of-the-art statistical functionality
* Strengthened back-end computations while simplifying front-end interface
* Engineered unique solutions to combine the best of MatLab and R’s interface

**Event-Based Shipping Delay Prediction** (Researcher) **January 2018 – May 2018**

* Studied trucking data from FY 2017 to both predict delays and classify delays as related to news-worthy events
* Designed a tree-based hierarchical model to cluster shipping routes by geohash value

**Predicting the Masses of Simulated Galaxies from Morphologies** (Researcher) **December 2016 – May 2017**

* Built a model to predict galaxy mass from redshift and luminosity values using a regression tree model

Experience

**Teaching Assistant** **January 2017 – May 2021**

* Ph.D. Statistical Computing, Reasoning with Data, Methods of Data Science
* Designed implemented a new discussion format for recitation sections
* 2018 Undergraduate Teaching Assistant of the Year, 2021 Masters Outstanding Teaching Assistant

**IT Associate May 2017 – May 2019**

**Community Advisor August 2018 – May 2019**

* Hire, train and lead a team of 10 Resident Assistants for the largest first-year dorm community of 300 residents
* Managed a budget of $13,500 to best direct 17 weekly programs carried by the RA staff

**Resident Assistant August 2016 – May 2018**