

# Tyler Soiferman

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## EDUCATION

### Bachelor of Science in Computer Science

09/2020 – 05/2024

*Stevens Institute of Technology*

Hoboken, NJ

**GPA:** 3.97 / 4.0 | Fall 2020 – Spring 2022 Dean's List | Edwin A. Stevens Scholarship

**Courses:** Data Structures, Algorithms, Fundamentals of Information Systems, Agile Methods for Software Development, Linear Algebra, Probability and Statistics

## SKILLS

### Languages/Libraries

Java, Python, C++, SQL, HTML/CSS, NumPy, Pandas

### Software

Tableau, Power BI, Excel, GitHub

### IDEs

Jupyter Notebook, Visual Studio Code

## PROFESSIONAL EXPERIENCE

### Student Researcher

05/2022 – Present

*Stevens Institute for Artificial Intelligence*

Hoboken, NJ

- Training ARIMA, autoregression, and recurrent neural network models to forecast new cases of COVID-19 using Keras, NumPy, and Pandas
- Incorporating policy change features into models to investigate the effect on the root mean square error

### Data Analyst Intern

05/2021 – 07/2021

*Dot Loves Data*

Wellington, New Zealand (Virtually)

- Contributed to Dot Loves Data's research by having formulated and completed an original NLP project
- Cleaned historical text corpora and utilized R to perform sentiment analyses on corpora
- Analyzed trends and drew insights from historical text that resulted in a publication for the company

## PROJECTS

### Bana – Banana Freshness Classification App

05/2022 – 07/2022

- Developed an end-to-end ML web app entitled Bana to predict banana freshness and solve an everyday issue
- Trained a convolutional neural network to 99.7% accuracy on banana images using TensorFlow, Keras, NumPy, and Matplotlib
- Built a backend and interactive frontend using Python, Flask, HTML, and CSS

### Soundle – An Immersive Game to Improve Mental Health

01/2022 – 05/2022

- Developed a Wordle inspired game using React and Python that exposes the user to a multi-sensory environment
- Collaborated in an Agile team of seven employing Scrum methodology
- Maintained consistent communication with and successfully produced a product for a senior executive from industry who served as our client

### Sign of the Times: Sentiment Analysis on Historical Text

05/2021 – 07/2021

- Investigated the correlation between word usage/sentiment and US historical events using R
- Revealed how sentiment analyses and NLP methodologies can be applied to a unique task
- Published in *Advanced Practical Approaches to Web Mining Techniques and Application*

## LEADERSHIP AND VOLUNTEER EXPERIENCE

### River Edge Public Library Volunteer

07/2016 – Present

- Creating and implementing programs for children that foster collaboration and critical thinking
- Completing various bookkeeping tasks around the library

### Dean's Student Advisory Board Member

09/2020 – 05/2021

- Communicated with Stevens School of Business students and implemented clubs, fundraisers, and other events with the Dean
- Reported feedback on School of Business coursework and suggested improvements to curriculums

## PUBLICATIONS

Soiferman, T. W., & Bracewell, P. J. (2022). Sign of the Times: Sentiment Analysis on Historical Text and the Implications of Language Evolution. *Advanced Practical Approaches to Web Mining Techniques and Application*, Chapter 5.