

# Stephen Williams

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## EDUCATION

**John Jay College of Criminal Justice, City University of New York (CUNY)**

New York, NY

Bachelor of Science in Applied Mathematics | Data Science Concentration

Dec 2022

Computer Science Minor | Cum Laude, GPA: 3.74/4.00

### Relevant Coursework:

Discrete Structures and Algorithms, Probability & Mathematical Statistics I, Probability & Mathematical Statistics II, Multivariate Analysis, Database and Data Mining, Data Analysis, Data Structures, Software Development, Machine Learning

## SKILLS

**Programming:** Python, C++, R, SQL, HTML, CSS, JavaScript, Node.js, Express.js

**Technologies:** Jupyter Notebook, VS Code, Git/GitHub, PyCharm, Selenium, AWS

**Certifications:** Codecademy Learn HTML and Learn CSS (Aug 2022)

## PROJECTS

**Netflix-Top-Content**, [<https://github.com/deepankarck2/Netflix-Top-Content>]

Mar 2023 – May 2023

- Developed, remotely in a team of 3, a website dashboard to help users decide what to watch on netflix.
- Scraped data from various websites and used GPT-3.5 to generate responses that provided users opinion on the movie or show, type of viewer who would enjoy this content, and list of similar media.

**Vibify**, [[github.com/CTPFallGroupProject/Music-Analysis-Machine Learning](https://github.com/CTPFallGroupProject/Music-Analysis-Machine-Learning)] [[slides](#)]

Oct 2022 – Dec 2022

- Developed, remotely in a team of 3, a Streamlit application where users can upload song lyrics and receive a dashboard with the genre and valence of the song and the top 5 lyrically similar songs.
- Implemented 2 LSTM architectures for valence regression and genre classification using Python, scikit-learn and Tensorflow with a mean squared error of .05 and validation accuracy of 60% respectively.

**Data Science salary**, [<https://github.com/Svalentinow/Machine-learning-classwork>]

Oct 2022 – Nov 2022

- Conducted EDA on a dataset containing various information such as salary and location of data science jobs.
- Evaluated which job and country paid the highest salary relating to data science.

**Ukraine-Russia War Analysis**, [[github.com/Svalentinow/Ukraine-Russia-war-analysis](https://github.com/Svalentinow/Ukraine-Russia-war-analysis)]

Mar 2022 – May 2022

- Performed EDA on Russian equipment losses and Tweets related to the Ukraine-Russia war.
- Implemented Word2vec, Logistic Regression and Decision Tree using Python, Gensim, scikit-learn and (Valence Aware Dictionary and sEntiment Reasoner (VADER )) sentiment.
- Documented findings and methodologies in reports.

## RELEVANT EXPERIENCE

**CUNY Tech Prep**, [<https://github.com/Svalentinow/2022-fall-data-science>]

New York, NY

Remote Fellow, Data Science

Jun 2022 – Jun 2023

- Learned in-demand technologies like Python 3, Jupyter Notebooks, Pandas, Numpy, Scikit-learn, and SQL industry best practices for exploratory data analysis (EDA), feature engineering, data collection and processing, statistical modeling, data visualization, machine learning techniques, data science process, and big data.
- Worked virtually with other fellows to complete and showcase projects at the end of each academic semester.

**Temple University**, [[slides](#)]

Philadelphia, PA

REU Remote Research Intern

Jun 2021 – Jul 2021

- Collaborated with a professor to conduct simulations using a [regex software](#) that generated regular expression to understand its algorithm.
- [Presented](#) experiments, including a five-fold analysis, to a cohort of REU students and research professors.

## SUPPORTING EXPERIENCE

**CUNY SEEK Program**

New York, NY

College Assistant

Aug 2019 – Dec 2019, July 2022

- Taught and tutored social science math, college algebra, and pre-calculus to 25 transfer students and incoming freshmen enrolled in a pre-baccalaureate program for underrepresented students at Baruch and John Jay Colleges.

## ASSOCIATIONS

**SEEK Chi Alpha Epsilon National Honor Society**

Nov 2021 – Dec 2022

Dean's List

May 2020 – Dec 2022