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 | GPA: 3.74/4.00
Relevant Coursework:
Discrete Structures and Algorithms, C++ Programming, Probability and Statistics, 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
Certifications: Codecademy Learn HTML and Learn CSS (Aug 2022)

PROJECTS

Vibify, [github.com/CTPFallGroupProject/Music-Analysis-Machine_Learning]　　　　　Oct 2022 – Dec 2022
- Developed, 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, the top 5 lyrically similar songs, and a word cloud depicting word frequency.
- 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.

Ukraine-Russia War Analysis, [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.
- Created papers that included methods and results of the data analysis.

Education-rpg, [github.com/devinramsammy/education-rpg]　　　　　　　　　　　Feb 2022 – May 2022
- Developed a online React 2D game, in a team of 5, to help users learn React by answering multiple-choice and debugging questions.
- Created a Sequelize model of database that contained user information, questions, and game elements.
- Established routes in the backend to communicate with the frontend and database using Express.

RELEVANT EXPERIENCE

CUNY Tech Prep　　　　　　　　　　　　　　　　　　　　　　　　　　New York, NY
Remote Fellow, Data Science　　　　　　　　　　　　　　　　　　　　　Jun 2022 – Present
- Learning 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.

Temple University　　　　　　　　　　　　　　　　　　　　　　　　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

John Jay SEEK Program　　　　　　　　　　　　　　　　　　　　　　New York, NY
College Assistant　　　　　　　　　　　　　　　　　　　　　　　　　Jul 2022
- Taught social sciences, math, along with a professor, to 20+ incoming college freshmen enrolled in a program for both academically and financially disadvantaged students.

Baruch SEEK Program　　　　　　　　　　　　　　　　　　　　　　　New York, NY
College Assistant　　　　　　　　　　　　　　　　　　　　　　　　　Aug 2019 -Dec 2019
- Tutored calculus twice a week to transfer students and freshmen.

ASSOCIATIONS

SEEK Alpha Xi Chapter Honor Society　　　　　　　　　　　　　　　Nov 2021 – Present
Dean's List　　　　　　　　　　　　　　　　　　　　　　　　　　May 2020 – Present