

# STEPHEN WILLIAMS

Queens, NY | (347) 543-2045 | [svalentinow@gmail.com](mailto:svalentinow@gmail.com)  
[github.com/Svalentinow](https://github.com/Svalentinow) | [svalentinow.github.io](https://svalentinow.github.io)  
<https://www.linkedin.com/in/stephen-v-williams/>

## Qualifications Summary

Analytical Data Science professional proficient in data visualization (Python, R, SQL, Jupyter Notebook, VS Code, PyCharm, AWS) and test automation tools. Skilled in test planning, test script development, execution, maintenance, and data integrity. Demonstrated strong teamwork (contributed to the successful completion of multiple projects), adaptability (handled project scope changes), and effective communication (collaborated with cross-functional teams). Holder of a Bachelor of Science in Applied Mathematics degree, majoring in Data Science and with a minor in Computer Science.

## MILESTONES/ACCOMPLISHMENTS

- **Proficiency in Data Technologies:** Mastered vital data technologies including Python, Jupyter Notebooks, Pandas, Numpy, Scikit-learn, and SQL. Achieved a thorough understanding of industry-leading practices in EDA, feature engineering, statistical modeling, visualization, machine learning, and big data management.
- **Insightful Data Analysis:** Demonstrated expertise in conducting insightful exploratory data analysis (EDA) by evaluating a dataset with diverse information, and extracting key insights that informed decision-making.
- **Advanced Data Modeling:** Applied complex data modeling techniques including KNN, Linear Regression, and Random Forest, contributing to in-depth analyses of various data scenarios.
- **Collaborative Project Completion:** Showed strong collaborative skills by working effectively with teams remotely and onsite to complete and present projects on time.
- **Positive Educational Impact:** Provided guidance and instruction to 25 students within a pre-baccalaureate program, enhancing their understanding of social science math, college algebra, and pre-calculus.
- **Strong Research Presentation:** Presented findings and methodologies of research projects to an audience of peers and research faculty, showcasing clear communication and research skills.

## Education

Bachelor of Science in Applied Mathematics

12/2022

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

- **Major:** Data Science | **Minor:** Computer Science
- **Cum Laude,** GPA: 3.74/4.00
- **Dean's Lister:** 05/2020 - 12/2022

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

## Certification

Learn HTML and Learn CSS, Codecademy

08/2022

## Skills

**CORE COMPETENCIES:** Machine Learning (ML) | Data Analysis | Statistics | Data Engineering | Algorithms | Data Visualization | Data Research | Data Modeling | Data Visualization Tools | Artificial Intelligence (AI) | Stakeholder Management | Cross-functional Team Collaboration | Problem-solving | Attention to detail | Communication (Written/Verbal/Executive-level Reporting)

**TECHNICAL/SOFTWARE: Programming:** Python, C++, R, SQL, HTML, CSS, JavaScript, Node.js, Express.js | **Technologies:** Jupyter Notebook, VS Code, Git/GitHub, PyCharm, Selenium, AWS

## Projects

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

03/2023 - 05/2023

- Collaborated remotely with a team of 3 to develop a website dashboard enhancing Netflix content choices.
- Utilized web scraping and GPT-3.5 to generate opinions, target audience insights, and related content lists.

- Vibify**, [[github.com/CTPFallGroupProject/Music-Analysis-Machine\\_Learning](https://github.com/CTPFallGroupProject/Music-Analysis-Machine_Learning)] [[slides](#)] 10/2022 - 12/2022
- Partnered with 3 remote team members to build a Streamlit app – users can upload song lyrics to receive a dashboard showing the song's genre, valence, and the top 5 lyrically similar songs.
  - Developed 2 LSTM models in Python, scikit-learn, and Tensorflow for valence regression and genre classification – achieved a mean squared error of .05 and 60% validation accuracy for the respective tasks.
- Data Science Salary**, [<https://github.com/Svalentinow/Machine-learning-classwork>] 10/2022 - 11/2022
- Performed exploratory data analysis (EDA) on a dataset comprising diverse information, including salary and job location data for data science positions.
  - 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)] 03/2022 - 05/2022
- Performed exploratory data analysis on Russian equipment losses and Tweets connected to the Ukraine-Russia conflict.
  - Applied Python, Gensim, scikit-learn, and VADER (Valence Aware Dictionary and sEntiment Reasoner) sentiment analysis to implement Word2vec, Logistic Regression, and Decision Tree models.
  - Summarized findings and methodologies, presenting them comprehensively in detailed reports.

## Work Experience

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- REMOTE FELLOW, DATA SCIENCE** 06/2022 - 06/2023  
 – CUNY Tech Prep, [<https://github.com/Svalentinow/2022-fall-data-science>] New York, NY
- Gained expertise in vital technologies: Python 3, Jupyter Notebooks, Pandas, Numpy, Scikit-learn, SQL, and mastered industry-leading practices encompassing EDA, feature engineering, data handling, statistical modeling, visualization, machine learning, data science processes, and big data management.
  - Collaborated virtually with fellow participants on project completion and presentation at the end of each academic semester.
- REU REMOTE RESEARCH INTERN** 06/2021 - 07/2021  
 – Temple University, [[slides](#)] Philadelphia, PA
- Partnered with a professor on simulations using [regex software](#) to comprehend its algorithm, using python.
  - [Delivered experiment findings](#), including a five-fold analysis, to an audience of REU peers and research faculty.
- COLLEGE ASSISTANT** 08/2019 - 12/2019, 07/2022  
 – CUNY SEEK Program New York, NY
- Guided and tutored 25 transfer and incoming freshman students in a pre-baccalaureate program for underrepresented individuals at Baruch and John Jay College, teaching social science math, college algebra, and pre-calculus.

## Professional Affiliations

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- SEEK Chi Alpha Epsilon National Honor Society 11/2021 - 12/2022