



# Brandon N Washington

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## EDUCATION AND HONORS

**Binghamton University, State University of New York, Harpur College**

**Binghamton, NY**

*Bachelor of Science in Physics, Concentration Applied Physics*

*May 2023*

**Cumulative GPA:** 3.67/4.00 | **Dean's List:** Fall 2020 – 2023 | **George E. Moore Scholarship:** Fall 2020 – 2023

**Honors:** Sigma Pi Sigma Honors Society

## SKILLS

**Computer and Software:** Linux, Windows, Mac OS, Microsoft Suite, Visual Studio Code, Jupyter Notebook, GitHub, Tableau, Django, LaTeX, Google Suite, Google Colab, Mathematica, MATLAB, MySQL, PostgreSQL, Salesforce, LangChain

**Programming Languages** Python, R, SQL, JavaScript, Java, CSS, HTML, C++/C

**Technical Skills:** Data Visualization, Dimensionality Reduction, Predictive Analysis, Web Scraping, Shell Scripting, Web Development, Natural Language Processing, Dimensionality Reduction, Research Methodology, Retrieval Augmented Generation

**Certifications:** Machine Learning Specialization via Stanford University - Coursera 2023, Deep Learning Specialization - Coursera 202, SQL for Data Science - Coursera 2024, Django Application Development with SQL and Databases - Coursera 2024

## PROFESSIONAL EXPERIENCE

### Amalgamated Life

**White Plains, NY**

*Business Analyst*

*June 2024 – Present*

- Managed and verified data sources within the plan participation team, coordinating new enrollments, adjusting client plans based on updated rates, and automating database updates using Python
- Utilized Microsoft Power Automate to streamline business processes, including organizing existing documents and eliminating redundant information, resulting in increased operational efficiency

### Learn Well Education

**White Plains, NY**

*Teaching Assistant*

*January 2024 – June 2024*

- Facilitated state approvals and coordinated with medical professionals and educators to tailor supportive and safe learning environments for students with mental health and eating disorders.
- Managed sensitive communications with parents and schools, ensuring HIPAA compliance and securing essential consents for hospitalized students. Oversaw comprehensive documentation processes, including Salesforce logging and email correspondence.

### C2 Education

**Scarsdale, NY**

*Math/Physics Teacher*

*May 2023 - Present*

- Designed and implemented tailored educational materials, focusing on individual student needs and performance levels, to facilitate deeper conceptual comprehension through detailed, step-by-step problem-solving guidance.
- Collaborated with a team of tutors to maintain a cohesive educational approach, regularly assessing, and adapting strategies to track and promote students' academic progress and achievement.

### National Science Foundation

**Binghamton, NY**

*Researcher Intern*

*May 2022 - August 2022*

- Employed advanced scientific computing techniques to analyze the surface properties of Lithium-Ion Batteries using Density Functional Theory, leading to in-depth research insights. Synthesized ten weeks of research data to propose future experimental directions and presented findings in a public poster session.
- Effectively communicated findings through a public poster session presentation and collaborated with a multidisciplinary team to develop innovative solutions in renewable energy, enhancing team knowledge through regular discussions and knowledge sharing.

## RELEVANT EXPERIENCE & PROJECTS

### Changing the Present

**Remote**

*Data Analyst Intern*

*April 2024 - Present*

- Developed an AI-driven career and job search guide for newcomers to the workforce, utilizing a large language model to generate comprehensive content on professional resume building and application processes
- Strategized website improvements focusing on user engagement and functionality and championed social causes such as stopping world hunger and poverty by advocating and raising awareness among the site's audience.

### SAT Problem Recommender System

**Scarsdale, NY**

*Analyst | Independent Project*

*November 2023*

- Compiled over 20,000 student SAT exam reports from the C2 Education archive, cleaned and prepared data, conducted an exploratory data analysis to identify trends and patterns between problem types and student performance
- Developed a content-based filtering algorithm to recommend to students' problems most suitable for them based on results from a diagnostic exam, integrated model into SAT test prep during tutoring sessions

### Predictive Policing Model

**White Plains, NY**

*Analyst | Independent Project*

*October 2023*

- Obtained reported crime data from the City of Los Angeles, used seaborn and matplotlib to visualize crime statistics in Python
- Created and implemented LSTM model for time series forecasting of crime, achieving a prediction accuracy of 99% and an F1 Score of 0.9 on the test set, based on 24-hour reported crime data.