

## EDUCATION

### The City College Of New York, CUNY

New York, NY

*Bachelor of Science in Computer Science, Minor in Mathematics and Business and Administration* December 2025

Relevant Coursework: Combinatorics and Graph Theory, Calculus 3, Probability and Statistics, Linear Algebra, Data Structures and Algorithms, Introduction to Machine Learning, Artificial Intelligence, Methods of Numerical Analysis

## TECHNICAL SKILLS

**Languages:** Java, Python, C++, SQL, JavaScript, R

**Certifications:** Supervised Machine Learning From Stanford Online and Deep Learning AI

**Libraries and Tools:** PyTorch, Tensor Flow, Sklearn, Pandas, Numpy, Git, Node.js, React.js, Google Cloud, AWS

## EXPERIENCE

### AI Fellow

June 2024 - June 2024

*NYU AI School*

- Participated in a summer program, attended lectures and built projects regarding various subsections of ML and AI from industry leaders from NYU Center for Data Science, Cornell, University Of Toronto, and NYU Langone Health.

### Machine Learning Research Intern

February 2024 - May 2024

*Interdisciplinary Data Science Lab*

- Worked on implementing and further developing research papers into usable code to advance cardiovascular health treatments using an advanced LMCLUS Clustering Algorithm
- Researched in order to advance LMCLUS Algorithm and achieved a 100% linear manifold finding rate in three different dimensions.
- Improved the diagnoses of different cardiovascular disease stages by over 25% using a LMCLUS algorithm model trained with over 100 thousand data entries.

### Research Associate Fellow

August 2023 - June 2024

*ICCAE: Cyber Threat Intelligence Integration Center*

- Fine tuned a BERT Model with 500 thousand data entries in terms of identifying writing as AI or human.
- Tested the new model with over 10 thousand data entries and achieving 80% accuracy as well as outputting triggers for said results in order to write and possibly publish a paper

### Data Science and AI Applications Fellow

July 2023 - June 2024

*CUNY Tech Prep*

- Selected for a competitive data science fellowship involving students from all 11 CUNY senior colleges, focusing on creating technical projects using advanced data tools.
- Utilized a variety of tools in the fellowship, including Python 3, Jupyter Notebooks, Pandas, Numpy, Scikit-learn, and SQL for project development.
- Gained knowledge in statistical modeling, data visualization, machine learning techniques, exploratory data analysis (EDA), feature engineering, and data collection and processing.

## PROJECTS

### Intern-Shipper | *Python, BeautifulSoup, Discord API*

- Created a bot that automatically webscrapes and posts a message alerting users of a new Internship as well as allowing users to search up specific internships using commands.
- Allowed for users to have a 75% increase in internship applications geared towards their passions.

### MTA Inequality Analysis | *Python, JavaScript, Docker, IpyLeaflet, GeoPandas, Pandas, Numpy*

- Led a team to analyze MTA train delays, utilizing real-time data for detailed insights by train line and neighborhood uncovering a correlation between race and/or income levels and train delays.

### Academic Weapon | *Bing API, ChromaDB, Python, Selenium, Ollama, FastAPI, Flask, Pydantic, Pandas, Hugging Face*

- Engineered an advanced GPT model that generates problems and study guides over 80% similar to class materials, utilizing a multi-query approach and re-ranking for more accurate outputs, allowing students to study effectively.

## AFFILIATIONS

**The BYTE Club:** Founding Member and Co-President

**ACM Club at CCNY:** E-Board Member

**Climb CCNY:** Vice President and Club Photographer