

# Reese Burns

New York, NY | (415) 994-7823 | [reeseburnzy@gmail.com](mailto:reeseburnzy@gmail.com) | <https://www.linkedin.com/in/reeseburns/>

## EDUCATION

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**New York University** | New York, NY

May, 2025

Bachelor of Arts, Computer Science and Mathematics

*Relevant Courses:* Data Structures & Algorithms, Data Management, Artificial Intelligence, Predictive Analytics, Software Engineering, Natural Language Processing, Operating Systems

*Math Courses:* Statistics, Discrete, Linear Algebra

*Stern School of Business:* Financial Accounting, Decision Models & Analytics

## TECHNICAL SKILLS

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**Data Analysis & Data Visualization:** Python (Pandas, NumPy), SQL, Excel, Tableau, R, Figma

**Data Science & Machine Learning:** Python (Scikit-Learn, TensorFlow, Matplotlib, Seaborn), Java, C, SPSS

**Database Management:** SQL, SQLite, MySQL, MongoDB

**Web Development & Design:** HTML, CSS, JavaScript, Flask, Node, React, Express

**Systems, Cloud & Containerization:** Git, Linux, Unix, Docker, DigitalOcean

**Business & Financial Analytics:** finance, financial modeling, capital markets

## PROJECTS

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**NYC Bars Web-App** | Python, Docker, Flask, MongoDB, HTML, CSS

Oct 2024 – Present

- Developed a full-stack, end-to-end website that manages and organizes NYC bars by various features, enhancing user exploration and discovery
- Utilized Docker containers to create a portable and scalable deployment environment
- Implemented dynamic search, filtering, and personalized recommendations to improve user experience

**Predicting Airbnb Prices in Europe** | Python (Scikit-Learn, TensorFlow, Seaborn)

Nov – Dec 2024

- Conducted exploratory data analysis (EDA) to identify trends in listing prices based on features like property type, location, and amenities
- Optimized regression and deep learning models like Multi-Linear Regression, Gradient Boosting, and Deep Neural Networks to predict airbnb prices
- Visualized key insights to determine significant predictors of airbnb prices across Europe

**Obesity Rates Analysis** | Python, SQL, R

August – Sept 2024

- Performed exploratory data analysis based on fast food restaurant density and obesity rates across the U.S.
- Built predictive models and data visualizations to explore potential correlations between these variables
- Utilized clustering algorithms, like PCA and K-Means, to identify underlying patterns

**Space Matching Game** | Java

April 2023

- Designed a matching card game that utilizes data handling through object-oriented programming
- Implemented features to display, hide, and check for image matches, analyzing user interactions

## EXPERIENCE

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**CS Teaching Assistant** | NYU Courant Institute of Mathematical Sciences

Jan. 2023 – May 2025

- Assistant for “Introduction to Computer Programming” and “Data Structures” courses at NYU
- Apply Python and Java to analyze and debug student assignments
- Mentored students to build confidence and technical proficiency, fostering collaboration and teamwork

**Marketing Analytics Intern** | Saffron Communities, San Francisco, CA

June 2022 – Sept. 2022

- Leveraged Excel to analyze event data to provide recommendations that support strategic decision-making
- Collaborated with clients to understand business needs and deliver detail-oriented, actionable insights to optimize event planning and outreach

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**NCAA DIII Athlete** | *New York University Swim & Dive*, New York, NY Sept. 2020 – May 2022

- Balanced 24+ hours per week of training, travel, and competition with academic responsibilities
- Developed strong time management, dedication, leadership, and communication skills
- *Intercollegiate Athletics Advisory Committee (2021)*: recognized for outstanding academic achievement

## ACTIVITIES

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**Clubs and Societies:** Intercollegiate Athletics Advisory Committee, The Penn Club

**Women in Tech Club Member** | *Girls Who Code, Women in Data Science* July 2023 – Present

- Collaborate on tech-driven projects, developing applications, websites, and data-driven solutions
- Attend workshops, speaker panels, and networking events focused on technical skills development, problem-solving, and leadership in tech

**Volunteer** | *New York Cares* July 2023 – Present

- Assisted adults with physical therapy exercises, ensuring effective and engaging sessions
- Provided math tutoring to children in grades 1-5, fostering a supportive educational environment

**Head Volunteer** | *USA Swimming Foundation: Make a Splash*

- Instructed underprivileged children in swimming, focusing on safety and proper technique
- Coordinated and promoted fundraising events, increasing community engagement and support