

Reese Burns

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Aspiring data and business analyst with experience supporting data science courses, analyzing event data to inform strategic decisions, and developing technical skills in Python, SQL, and Excel. Strong communicator with a foundation in statistics, finance, and data modeling. Excited to apply my analytical mindset across roles in data science, analytics, and finance to solve real-world problems and make a positive impact.

EDUCATION

New York University | New York, NY

May 2025

Bachelor of Arts in Computer Science, Minor in Mathematics

- **Relevant Courses:** Data Structures & Algorithms, Data Management, Artificial Intelligence, Predictive Analytics, Software Engineering, Natural Language Processing, Operating Systems, Statistics, Discrete Mathematics, Linear Algebra
- **Stern School of Business:** Financial Accounting, Decision Models & Analytics
- **Achievements:** *Intercollegiate Athletics Advisory Committee in 2021* for exceptional academic performance

TECHNICAL SKILLS

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

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

Database Management: SQL, SQLite, MySQL, MongoDB

Web Development: HTML, CSS, JavaScript, Flask, Node, React, Express

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

Business & Financial Analysis: PowerBI, Capital Markets, financial modeling, data models

PROJECTS

Multi-Label Token Classification of Healthcare Documents

Feb – May 2025

Python, spaCy, Bio_ClinicalBERT, NLP, NER, HuggingFace API

- Built a machine learning pipeline to classify medical tokens using a fine-tuned Bio_ClinicalBERT model
- Generated and labeled synthetic clinical sentences using BIO tagging for entity recognition
- Achieved 93.1% F1 score on test data, ensuring accurate classification without manual labels

Ocean Surface Heat Flux Analysis

Feb – May 2025

Python (Pandas, Matplotlib, Seaborn, Cartopy)

- Visualized global latent heat flux trends using Cartopy, seasonal overlays, and time-series analyses
- Analyzed correlations between temperature, salinity, and heat flux to identify dominant drivers during ENSO years

NYC Bars Web-App

Oct 2024 – Jan 2025

Python, Docker, Flask, MongoDB, HTML, CSS

- 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

Nov – Dec 2024

Python (Scikit-Learn, TensorFlow, Seaborn), SQL

- Conducted EDA to identify trends in listing prices based on 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

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EXPERIENCE

NYU Courant Institute of Mathematical Sciences | New York, NY Jan. 2023 – May 2025

Data Science Teaching Assistant

- Assisted in 'Introduction to Computer Programming' and 'Data Structures' courses at NYU, utilizing course materials and student feedback to enhance learning experiences
- Applied Python and Java to analyze and debug assignments for over 40+ students per semester, improving their understanding of programming concepts
- Mentored students to build confidence and technical proficiency, fostering collaboration and teamwork

Saffron Communities | San Francisco, CA

June 2022 – Sept. 2022

Marketing Analytics Intern

- Cleaned and organized data using Excel and SQL to ensure accuracy, consistency, and usability for reports
- Analyzed event and marketing data to uncover trends, leading to improved strategic decision-making and increased event attendance
- Delivered insights and recommendations that optimized event planning and improved client outreach effectiveness, resulting in higher client engagement and satisfaction

New York University Swim & Dive | New York, NY

Sept. 2020 – May 2022

NCAA DIII Athlete

- Managed 24+ hours weekly for training, travel, and competition alongside academic duties
- Developed time management, dedication, teamwork, and communication skills under pressure
- Fostered leadership and resilience while contributing to team success in a highly competitive environment

CERTIFICATIONS

Financial & Quantitative Modeling | University of Pennsylvania (Wharton)

July 31, 2025

Securities Industry Essentials (SIE) | FINRA

Expected Sept 2025

ACTIVITIES

Girls Who Code, Women in Data Science | New York, NY

July 2023 – Present

Women in Tech Club Member

- 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

New York Cares | New York, NY

July 2023 – Present

Volunteer

- 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

USA Swimming Foundation: Make a Splash | San Rafael, CA

Head Volunteer

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