

Reese Burns

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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

Math Courses: Statistics, Discrete Mathematics, Linear Algebra

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

TECHNICAL SKILLS

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

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

Database Management: SQL, SQLite, MySQL, MongoDB

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

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

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

PROJECTS

Multi-Label Token Classification of Healthcare Documents | Python, Bio_ClinicalBERT Feb – May 2025

- Built a clinical NLP 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 | Python (Pandas, Seaborn, Cartopy)

Feb – May 2025

- Generated global plots and seasonal overlays to visualize latent heat flux trends in the ocean surface
- Computed and compared regional correlations between salinity, temperature, and heat flux in ENSO years
- Interpreted spatial patterns to identify temperature as the dominant influence on latent heat flux

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

Oct 2024 – Jan 2025

- 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 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

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

EXPERIENCE

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 assignments for over 40+ students per semester
- Mentored students to build confidence and technical proficiency, fostering collaboration and teamwork

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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 and customer needs and deliver detail-oriented, actionable insights to optimize event planning and outreach

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

- Managed 24+ hours weekly for training, travel, and competition alongside academic duties
- Enhanced time management, dedication, leadership, and communication skills
- Received recognition for exceptional academic performance from *Intercollegiate Athletics Advisory Committee* in 2021

ACTIVITIES

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