Reese Burns

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EDUCATION

New York University | New York, NY

Bachelor of Arts, Computer Science and Mathematics

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

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

TECHNICAL SKILLS

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, MongoDB
Web Development & Design: HTML, CSS, JavaScript, Flask, Node, React, Express
Systems, Cloud & Containerization: Linux, Unix, Docker, DigitalOcean

PROJECTS

NYC Bars Web-App | Python, Docker, Flask, MongoDB, HTML, CSS   Oct 2024 – Present
- Developed a full-stack 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 (EDA) based on fast food restaurant density and obesity rates across the United States
- 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

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 and manage event data
- Provided data-driven recommendations to support strategic decision-making
- Developed and managed social media strategies, enhancing event promotion and engagement

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, concentration, and leadership skills
- *Intercollegiate Athletics Advisory Committee (2021):* recognized for outstanding academic achievement

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