Jen Martinez

929-428-7573 | jen.martinez@nyu.edu | LinkedIn | Portfolio | GitHub | New York, NY

EDUCATION

New York University   New York, NY
Bachelor of Applied Science in Computer Science | Concentration: Data Science   Expected May 2025
Study Abroad: New York University, Paris, France   Jan 2024–May 2024
Relevant Coursework: Data Science, Data Analysis, Linear Algebra, Algorithms, Database Management, Corporate Finance, Micro & Macro Economics, Principle of Accounting, Financial Markets

RELEVANT EXPERIENCE

Vertically Integrated Projects | *Participant* | New York, NY   Aug 2024–Present
- Lead sub-team efforts in specialized tasks such as data processing, application development, and open-source project management
- Collaborate with team members to analyze real data sets, employing critical thinking, problem-solving, and technical skills
- Created and assessed new data visualization techniques tailored to specific audiences and industries

NYU Langone Hospital | *Project Lead* | New York, NY   May 2024–Present
- Use R, SQL, and scikit-learn to create machine learning models for personalized meals and improved food access
- Leads bioinformatics research on processed foods, applying machine learning to improve food health and security
- Works with NYU teams to develop guidance for policymakers on obesity, health disparities, and food policy

Predictive Modeling for Spotify Song Streams | *Data Science Applications* | Paris, FR   Feb 2024–Apr 2024
- Spearheaded data exploration and feature engineering initiatives to identify optimal predictors for machine learning models
- Utilized advanced statistical techniques and visualization tools to uncover meaningful insights and patterns within the dataset
- Curated an exchange of variables application to find target audiences and predicted streams per audience

Student Information Management System (SIMS) | *Database Management* | Paris, FR   Mar 2024–April 2024
- Created a SQLite3 database to manage student info, tracking fees, courses, and teacher assignments
- Normalized the database to the 4th Normal Form (4NF), ensuring efficient data organization and eliminating anomalies.
- Implemented SQL queries to create tables, insert data, and retrieve information, ensuring data integrity with primary and foreign key constraints.

Inspirit AI with Stanford and MIT | *Research Assistant* | Los Angeles, CA (Virtual)   Dec 2020–Jan 2021
- Completed a 25-hour AI boot camp with AI Scholars, collaborating with Stanford and MIT graduate instructors
- Gained AI programming skills, contributing to machine learning projects in healthcare and environmental fields
- Engaged in workshops exploring AI career paths and ethical implications

PROJECTS

ESG Ratings and Income Analysis Projects | *Data Analyst and Engineer* | Paris, FR   Apr 2024–May 2024
- Conducted in-depth data analysis and statistical correlation to uncover the link between ESG ratings and company income
- Used advanced data engineering to preprocess datasets, identifying key factors in ESG ratings and financial performance
- Delivered actionable insights to optimize ESG ratings and income strategies in the tech sector, fostering profitable investments

Interval Mapping Implementation | *Object Oriented Programming* | Paris, FR   Mar 2024–April 2024
- Developed a template-based interval_map class using std::map for efficient key-value interval management
- Optimized the interval assignment function to handle overlaps and preserve existing values, ensuring accurate assignments
- Conducted comprehensive testing, including edge cases, to ensure reliable value retrieval and map integrity

LEADERSHIP & PROFESSIONAL DEVELOPMENT

Tandon Undergraduate Student Council | *Student Success Branch* | Brooklyn, NY   May 2023–Present
- Leads NYU Tandon Student Council, advocating for student interests and fostering campus community
- Conducts comparative analysis of success rates of similar initiatives at peer institutions to inform advocacy strategies
- Analyzes data to effectively represent and advocate for student interests and goals within the administration

New York University Peer Justice Zone | *Senior Facilitator* | New York, NY   Jun 2022–Present
- Leads Tandon's Peer Justice Zone as Senior Facilitator, guiding discussions on diversity, equity, and social justice for groups ranging from 7-20 students and faculty members
- Conducts an average of three two-hour sessions each week encouraging critical reflection on personal identities and practices
- Works with a senior facilitator and nine DEI committee members to develop and curate content modules

Management Leadership for Tomorrow | *Ascend Program Scholar* | Washington, D.C.   Sept 2023–Present
- Selected to engage in this professional development program for high-achieving diverse talent
- Complete business case studies and intensive projects to hone analytical, quantitative, and communication skills
- Attend conferences hosted by industry leaders across a myriad of industries, including technology, financial services, consulting, consumer packaged goods and healthcare

SKILLS

- *Programming Languages:* Python, C, C++, MATLAB, SQL, CSS, HTML, JavaScript
- *Technical:* Git, Docker, Ansible, Kubernetes, UNIX/Linux, MySQL, SQLite, Visual Studio, PyCharm, Jenkins
- *Languages:* French (intermediate.), Spanish (fluent), American Sign Language (basic), Arabic (beginner)
- *Certifications*: NYU Tandon applied Data Science Certification, Cardiopulmonary resuscitation