JULIETTE MANGON

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EDUCATION

New York University, **College of Arts & Sciences,** New York City, NY   **Sept 2023 – Dec 2025**
B.A. Computer Science and Mathematics

Course Work: Algorithms, Applied Internet Technology, Computer Systems Organization, Discrete Structures, Natural Language Processing, Numerical Computing, Operating Systems, Real Analysis, Theory of Probability, Topology.

Stern School of Business, Steinhardt School of Culture, Education, Human Development, Tisch School of The Arts
Minor in Business of Entertainment, Media, and Technology.

Course Work: Data Analysis in the Music Industry, Business Structure of the Music Industry, Entertainment and Media Industries, Globalization of the Entertainment Industry, Business of Film, Business of Video Games

TECHNICAL SKILLS

Language & Frameworks | Python, Java, C++, C, JavaScript, React, HTML, CSS, SQL, MATLAB, R, Assembly
Tools & Platforms | AWS, APIs, Git, GitHub, Vite, Docker, Unix/Linux, LaTeX, Excel, Google Suite, Ollama

DEGREE-RELATED WORK EXPERIENCE

AI/ML Intern | Enlaye   **Jun 2025 – *Present***
Python, AWS, Ollama, GitHub
• Integrated large language models, deployed on AWS, into Enlaye's AI-native platform for risk mitigation in construction
• Built end-to-end AI workflow to convert field audio and images into structured issue reports integrated with Autodesk
• Designed query-generation system to return next-step recommendations from contract and project documentation

Website Developer | Tryst Restaurant   **Jun 2025 – *Present***
HTML, CSS, JavaScript
• Redesigning and developing a fully coded website for Tryst, replacing Wix to improve performance, flexibility, and UX.
• Delivered a fully responsive site with improved mobile performance and SEO.
• Redesigned UI for clarity and faster page loads using semantic HTML and lazy loading

USA Mathematical Talent Search Competition Grader | Art of Problem Solving   **Oct 2023 – *Present***
C++, Python, Excel, Mathematics
• Evaluating Olympiad-level proofs, assessing complex reasoning and providing detailed written feedback
• Collaborated with other graders to standardize scoring and ensure consistency across submissions.

Photoville Intern | Regenerating Inc   **May – Aug 2024**
Python, SwiftUI, Figma
• Developed an AI-powered iOS photo editing app, integrating facial recognition software from cv2, numpy, and dlib

PROJECTS

Music Data Aggregations and Insights Tool – Connect TogetHER Mentorship   **Jun – Aug 2025**
Python, Neo4j, Data modeling, HTML, JavaScript
• Selected as a music tech mentee for She Is The Music's competitive mentorship program supporting women in music.
• Built a music analytics platform for A&R discovery, enabling exploration of artist collaboration networks, shared creative contributors, and derivative connections.
• Aggregated data and designed algorithms to surface cross-project relationships, rights metadata, and emerging patterns
• Developed interactive visual interface for dynamic graph exploration, supporting intuitive navigation of complex creative networks.

Client Website Development Projects   **Feb 2025 – *Present***
React, Tailwind CSS, HTML/CSS/JS, Vite
• Designed and deployed custom domain websites for artists and creatives using React and Tailwind.
• Emphasized interactive UI components and distinctive visual layouts tailored to each client brand.

Essay Plagiarism Detection Project   **Dec 2024 – Jan 2025**
Python, NLP, TF-IDF, Word2Vec, N-grams, Cosine similarity, Evaluation metrics
• Enhanced and benchmarked NLP-based plagiarism methods using TF-IDF, Word2Vec, and cosine similarity scoring.
• Designed an evaluation function to enhance detection precision through data analysis and iterative improvements.