

# JULIETTE MANGON

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## EDUCATION

**New York University, College of Arts & Sciences**, New York City, NY  
B.A. Computer Science and Mathematics

**Sept 2023 – Dec 2025**

**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:** Entertainment and Media Industries, Globalization of the Entertainment Industry, Business Structure of the Music Industry, Business of Film, Business of Video Games

## TECHNICAL SKILLS

**Language & Frameworks** | Python, Java, C++, C, JavaScript, React, HTML, CSS, MATLAB, Assembly, BASIC

**Tools & Platforms** | AWS, Git, GitHub, NPM, Vite, Docker, Unix/Linux, LaTeX, Excel, Google Suite, Ollama, APIs

## DEGREE-RELATED WORK EXPERIENCE

**AI/ML Intern | Enlaye**

**Jun 2025 – Present**

*Python, AWS, Ollama, GitHub*

- Contributing to the agentic architecture of Enlaye's AI-native contract platform, enabling multi-step LLM reasoning.
- Built and iterated on query preprocessing agents to structure user inputs and improve retrieval accuracy.
- Configuring, testing, and deploying large language models across local and AWS environments with an emphasis on prompt design and performance tuning.

**USA Mathematical Talent Search Grader | Art of Problem Solving**

**Oct 2023 – Present**

*C++, Python, Excel, Mathematics*

- Evaluating students' entries to the USA Math Talent Search Contest, marking progress and awarding points accordingly
- Analyzes math calculations, theories, and computational proofs and provides constructive criticism

**Website Developer | Tryst Restaurant**

**Jan – Jun 2025**

*HTML, CSS, JavaScript*

- Redesigning and developing a fully coded website for Tryst, replacing Wix to improve performance, flexibility, and UX
- Implementing responsive UI/UX and SEO optimizations to enhance navigation, engagement, and visibility

**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
- Designed UI in Figma and conducted competitor and pricing analysis

## PROJECTS

**Music-Tech Project – Connect TogetHER**

**Jun – Aug 2025**

*Python, Neo4j, Data modeling, Copyright law logic, Graph theory*

- Selected as a music tech mentee for She Is The Music's competitive mentorship program supporting women in music.
- Designing a backend system to map song ownership and derivative relationships, enabling clearer rights attribution and credit tracking.
- Applying copyright logic and metadata checks to flag licensing risks, with graph visualizations for industry analysis.

**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.

**Plagiarism Detection Enhancement Project**

**Dec 2024 – Jan 2025**

*Python, NLP, TF-IDF, Word2Vec, N-grams, Cosine similarity, Evaluation metrics*

- Implemented and benchmarked NLP-based plagiarism methods, extending results from published research.
- Designed an evaluation function to enhance detection precision through data analysis and iterative improvements.