

JULIETTE MANGON

juliettemangon.com • github.com/juliettemangon2

(781) 628 8078
juliette.mangon@gmail.com

Boston, MA & New York City, NY
linkedin.com/in/juliette-mangon

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: 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

- 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.
- Integrating copyright rules and metadata validation to identify licensing risks, with a graph visualization to support industry analysis.

Client Website Development Projects

Feb 2025 – Present

- 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

- Developed a plagiarism detection system, refining existing methods through NLP techniques like N-gram classification, TF-IDF, and Word2Vec.
- Designed an evaluation function to enhance detection precision through data analysis and iterative improvements.