

JULIETTE MANGON

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EDUCATION

New York University

Sept 2022 – Dec 2025

B.A. Computer Science and Mathematics

- **Coursework:** Applied Internet Technology, Natural Language Processing, Algorithms, Computer Systems Organization, Numerical Computing, Real Analysis, Theory of Probability, Mathematical Statistics and Data Analysis

Minor in Business of Entertainment, Media, and Technology

- **Coursework:** Data Analysis in the Music Industry, Business Structure of the Music Industry, Business of Film, Entertainment and Media Industries, Globalization of the Entertainment Industry, Business of Video Games.

TECHNICAL SKILLS

Languages & Frameworks | Java, C++, C, Python, JavaScript, TypeScript, React, HTML, CSS, MATLAB, Assembly, R

Tools & Platforms | AWS, Git, GitHub, Drizzle ORM, Unix/Linux, Excel, Google Suite, Figma, LaTeX, Docker, APIs

WORK EXPERIENCE

Freelance Web Developer

Feb 2025 – Present

React, Tailwind CSS, HTML, JS, Figma, Cloudflare

- Built and launched 7+ responsive websites for artists and creative professionals, tailoring UI design and functionality to each client's brand identity.
- Used Cloudflare Analytics and client feedback to iterate design, prioritizing UX to improve user engagement and usability.
- Managed the full product lifecycle from prototyping to deployment, ensuring reliable performance.

USA Mathematical Talent Search Grader | Art of Problem Solving

Oct 2023 – Present

C++, Python, Excel, Mathematics

- Evaluated 500+ Olympiad-level proofs per round, assessing complex reasoning and providing detailed feedback.
- Collaborated with other graders to refine rubrics and maintain scoring consistency across a national pool of submissions.

AI/ML Intern | Enlaye

Jun – Aug 2025

Python, AWS, TypeScript, Ollama, Drizzle ORM

- Built and deployed end-to-end workflows that transformed field audio and images into structured issue reports integrated with Autodesk, Procore, and InEight, enabling 80% faster reporting across 1,000+ events.
- Developed a preprocessing pipeline to standardize and filter input data, improving LLM accuracy by 20% and reducing query latency by 35%.
- Collaborated with PMs to define success metrics and evaluate model performance, ensuring outputs aligned with real-world user needs and product goals.

Software Engineering Intern | Regenerating Inc

May – Aug 2024

Python, SwiftUI, Figma

- Developed an AI photo-editing iOS application with a SwiftUI frontend and a Python facial-recognition backend.
- Implemented facial recognition using cv2, NumPy, and dlib to generate professional headshots.
- Prototyped layouts in Figma and conducted competitor and pricing analyses to refine design and market positioning.

PROJECTS

Music Data Analytics and Insights Tool – Music Tech Mentee

Jun – Aug 2025

Python, Neo4j, Data modeling, HTML, JavaScript, Node.js

- Selected as 1 of 40 mentees from 500+ applicants for She is The Music's mentorship program; received direct product mentorship from a Google PM.
- Designed and built a metadata network integrating API endpoints from Spotify, MusicBrainz, Discogs, and SecondHandSongs to map collaboration patterns across the music industry.
- Developed an analytics and insights dashboard with an interactive visual network to explore artist, genre, and label relationships, supporting A&R discovery and data-driven decision-making.

Essay Plagiarism Detection Project

Dec 2024 – Jan 2025

Python, TF-IDF, Word2Vec, N-grams, Cosine similarity, scikit-learn, NumPy

- Developed a plagiarism detection system comparing n-gram features and similarity scores.
- Presented findings in a departmental research showcase.
- Implemented multiprocessing to cut training time by 82% and achieved a 72.8% F-score across 1,400 academic papers.