

JULIETTE MANGON

juliette.mangon@gmail.com | (781) 628 8078 | New York, NY

juliettemangon.com | github.com/juliettemangon2 | linkedin.com/in/juliette-mangon

EDUCATION

New York University

Sept 2022 – Dec 2025

B.A. Computer Science and Mathematics

Coursework: Applied Internet Technology, Natural Language Processing, Algorithms, Numerical Computing, Computer Systems Organization, 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 of the Music Industry, Music Publishing, Strategic Music and Branding, Business of Film, Globalization of the Entertainment Industry, Business of Video Games.

TECHNICAL SKILLS

Languages & Frameworks | Java, Python, C++, C, JavaScript, TypeScript, Swift, React, Next.js, Express.js, HTML, CSS

Tools & Platforms | AWS, Git, GitHub, Unix/Linux, Docker, REST APIs, MongoDB, SQL, Firebase, Figma, Node.js

EXPERIENCE

Product Manager & Algorithms Engineer | Heritage

Jan 2026 – Present

TypeScript, Python, Firebase, Firestore, Cloud Functions

- Leading a team of 4 designers and engineers to build Heritage, an iOS platform that helps aspirational people achieve their goals by putting them in the right rooms with the right people.
- Designing event and connection recommendation algorithms, iterating through user testing and behavioral feedback.

Engineering Consultant | Spinach Media Group

Feb 2026 – Present

- Exploring the intersection of AI, digital culture, and creative industries through a structured residency covering visual literacy, media analysis, and artist brand strategy.
- Conducting case studies on emerging artists and active media campaigns, analyzing audience growth, content performance, and brand positioning across digital platforms.

Web Developer | Freelance

Feb 2025 – Present

Next.js, React, HTML, JavaScript, Tailwind CSS, Cloudflare

- Building and maintaining websites for clients across the music, film, and creative industries, including record labels, production companies, and artist service platforms.

Research Software Engineer | NeuGenes UCSF Lab

Oct 2025 – Feb 2026

React, Tailwind CSS, HTML, Express.js, MongoDB, API Design

- Developed an interactive platform to visualize neural and genetic data from deep-learning alignment models.
- Integrated model pipelines with a React and Express web application for dynamic data processing and analysis.

AI/ML Intern | Enlaye

Jun – Aug 2025

Python, AWS, TypeScript, SQL, Ollama, Drizzle ORM, OAuth 2.0

- 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+ field events.
- Developed a preprocessing pipeline to standardize input data, improving LLM accuracy by 20% and reducing query latency by 35%.

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 head shots.

PROJECTS

Music Data Analytics and Insights Tool – Music Tech Mentee

Jun – Aug 2025

Python, HTML, JavaScript, Next.js, Express.js, MongoDB, vis.js

- Selected as 1 of 40 mentees from 500+ applicants for She is The Music's mentorship program; received direct product mentorship from an industry PM.
- Built a web application integrating metadata from 4 APIs 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 helping teams identify suitable collaborators for upcoming projects.