

# TERESA IBARRA

[mtmibarra@gmail.com](mailto:mtmibarra@gmail.com) | [linkedin.com/in/teresaibarra](https://www.linkedin.com/in/teresaibarra) | [github.com/teresaibarra](https://github.com/teresaibarra) | [teresaibarra.com](https://teresaibarra.com)

## EXPERIENCE

**Metropolitan Transportation Authority** - Sr. Software Engineer *New York, NY | Sep 2024 - Present*

- Collaborating within the Digital Services team to enhance customer-facing digital touchpoints, including mobile applications and subway screens, to improve user engagement and overall customer experience

**Recurse Center (professional sabbatical)** - Participant *New York, NY | Feb - May 2024*

- [Analyzing my texts](#): Visualized 80k text messages using NLP techniques in Python and Observable Plot; streamlined text extraction & data preparation, trained ML models, and ensured easy replication [via GitHub](#)
- [To The Beat](#): Developed generative techno program that synchronizes music with live heart rate data, using Python for data retrieval, processing, and OSC transmission to Max/MSP for real-time beat matching
- Facilitated web development and programming skills group, delivered presentations, and pair programmed

**Datadog** - Software Engineer *New York, NY | Oct 2020 - Dec 2023*

- Led planning and implementation of cost visualization and projection features, achieving ~\$5M in additional ARR; significantly refactored data model to support and scale complex billing scenarios
- Led development of novel product specification interface; conducted user research, designed wireframes, and implemented a high-fidelity React prototype to streamline operations and accelerate market readiness
- Maintained and refactored legacy TypeScript & Python code with focus on UX and security optimizations
- Mentored interns and new hires on best practices, provided career guidance, and performed code reviews

**Industrial Light & Magic** - Software Engineering Intern *San Francisco, CA | 2019*

- Created a Python API that facilitates high-priority file system operations across global production studios

**CircleCI** - Software Engineering Intern *San Francisco, CA | 2018*

**Stitch Fix** - Software Development Intern *San Francisco, CA | 2017*

**IBM Design** - Software Design Intern *Austin, TX | 2016*

**Slack** - Software Engineering Intern *San Francisco, CA | 2016*

**Bloomberg L.P.** - Software Development Intern *San Francisco, CA | 2015*

## EDUCATION

**Harvey Mudd College** - B.S. in Computer Science *Claremont, CA | 2015 - 2020*

- Graduation with Distinction, concentration in artificial intelligence and machine learning

## PROJECTS

**Asset Browser for Paramount Animation** - Engineer *Claremont, CA | Sep 2019 - May 2020*

- Performed extensive user research to design prototype for internal asset browsing & management system
- Winner of Harvey Mudd Computer Science Clinic Team award for outstanding performance and service

[Interpreting auditory attention in BCI EEG data with ML techniques](#) *Claremont, CA | 2019*

[Procedural generation of short ballet routines](#) *Claremont, CA | 2019*

[Neurally-generated lyric-based music recommendations](#) *Claremont, CA | 2019*