

Jesse Fischer

Design Engineer & Creative Technologist
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Summary

Design engineer and creative technologist specializing in interactive web applications, developer tooling, and visually compelling digital experiences. Experienced leading multidisciplinary teams from prototype through launch, building complex frontend systems, integrating with APIs and CMS platforms, and managing cloud infrastructure and deployment workflows. Combines a background in computer science and interactive media art with extensive experience in music, audio, and visual storytelling, as well as a passion for education, mentorship, and journalism.

Education

New York University, Tisch School of the Arts

M.A. in Interactive Media Art

Lumen Player — Interactive Media Art Thesis

Designed and developed a physical/digital music platform exploring intentional listening, combining custom hardware, web software, interactive interfaces, and digital media.

Rutgers College, *magna cum laude*

Bachelor of Arts in Computer Science & Linguistics; minors in Math & Cognitive Science

Honors thesis advisors, Profs. Alan Prince & Roger Schwarzschild

Private jazz piano study, Prof. Stanley Cowell

Phi Beta Kappa

Rutgers Review, Editor-in-Chief

Technical Skills

Languages: TypeScript, JavaScript, Java, Python, C/C++, Swift, Bash

Frameworks: React, Next.js, Three.js, React Three Fiber, Framer Motion, XState, Tone.js

Data & APIs: GraphQL, REST, Postman, Altair, GraphQL Codegen

DevOps: AWS (S3, CloudFront, EC2, ECS), Vercel, CircleCI, GitHub Actions

CMS: Contentful, DatoCMS, Statamic, Brightspot, Wordpress

AI-assisted code generation tools: Claude Code, Gemini/Antigravity, Copilot

Audio & Media: Pro Tools, Ableton Live, Logic Pro, Adobe Premiere, Adobe Photoshop, Figma, FFmpeg

Professional Experience

Work & Co (Brooklyn, NY)

2021–present

Lead Developer · 2026–present

Senior Developer · 2024–2026

Developer · 2021–2024

- **Led development of complex interactive web experiences from prototype through launch**, collaborating closely with designers, strategists, and clients craft memorable and meaningful user experiences for brands such as Google, Audacy, Intel, Gatorade, PGA Tour, and Steve Jobs Archive
- **Designed and maintained reusable front-end systems and internal developer tools** that improved implementation workflows and supported complex interactive experiences across projects.
- **Built and maintained integrations with third-party APIs and headless CMS platforms**, including GraphQL schemas, queries, generated types, and content models. Examples include Dato, Contentful, Statamic, and Brightspot
- **Managed cloud and deployment infrastructure**, including AWS S3, ECS, EC2, CI/CD systems, GitHub repositories, and Vercel deployments.
- **Established technical patterns and documentation** through architectural decision records, code conventions, and internal technical presentations.
- **Mentored developers** through regular 1:1s, pair programming, and technical guidance, supporting consistent contributions to shared systems and codebases.
- **Prototyped and evaluated emerging technologies** and communicated findings through internal newsletters and company-wide presentations.

Freelance Web Designer/Developer

2008–2021

- Designed and developed web sites for artists, small businesses, and non-profits
- Worked in Wordpress environments as well as vanilla HTML/CSS/JavaScript

Freelance Musician & Audio Engineer

2008–present

- **Recorded and released 10 albums** of original compositions as a jazz pianist
- **Contributed to more than 100 recorded albums** as recording and mix engineer
- **South Arts Jazz Road awardee** (2023 and 2021), American Music Abroad finalist (2021)
- **1.5 million Spotify streams** to date

Pedagogical Experience

Private Instructor, piano and music production

- Teach ear-training, harmony, sound design, engineering, mixing, and overall production concepts

Trevor Day School (NYC)

- Developed 3-week intensive music production workshop for 6th, 7th, and 8th graders during Trevor Day School's mid-winter "Mini-Term."

Unity Church of Teaneck (Teaneck, NJ)

- Led youth music workshops after Sunday services for students from elementary to high school

Rutgers College (New Brunswick, NJ)

- Teaching Assistant, Computer Science 111 (Introduction to Computer Science)

Volunteer Experience

Marcy Lab School (Sunset Park, Brooklyn)

Mentor, 2023–present

- Meeting biweekly 1:1 with a Marcy Lab Fellow, a young high school graduate entering the tech industry via a college alternative

Mouse (NYC)

#CSEdWeek Professional Mentor, 2022

- Spoke with students in K–8 classrooms about my career paths in music and tech, sparking curiosity about computer science and digital product design
- Advocated for greater diversity and equity in the tech industry

Mixteca Organization (Sunset Park, Brooklyn)

Food Distribution Initiative, 2020–2021

- Assisted with technical needs including designing and developing web app to streamline driver experience and maintain records of successful deliveries

Korean American Family Service Center (Flushing, Queens)

Mentoring Program, 2013–2016

- Acted as mentor and *hyung* (“big brother”) for a Korean-American teen, emphasizing self-awareness, identity, life skills, and career planning