

## ELIZABETH M LOVERO

I am a Software Engineer and Manager experienced in both art and technology. I am looking to merge my programming, project management, and communication skills in a role that shares compelling stories in digital spaces.

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### TECH EXPERIENCE

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#### **Transfix, Inc**

##### Senior Software Engineer II

7/22-8/23

New York, NY

- Front end engineer for Transfix Shipper App, a Typescript/React/GraphQL-based transportation management SAAS product that manages freight auctions, tracking and RFPs for major clients like Trinity Rail and ULINE.
- Epic owner and lead engineer for major redesign of product home page into an interactive data dashboard including a new interactive map and bar chart visualization. Defined technical requirements and architecture documentation, coordinated with design/product, authored all Jira tickets, ran progress check-ins and QA sessions, coded deliverables including end-to-end testing and oversaw code reviews of a 5-engineer project team.
- Architect and engineer for GraphQL conversion of application front end. Drafted schemas, generated queries and refactored existing front end architecture to interface with new back end. Wrote a custom utility to harness Relay-style pagination to work with existing internal platform library components.

#### **Simons Foundation**

##### Data Visualization Software Engineer

10/18-12/22

New York, NY

- Provide in-house visualization and web development services for over 200 scientists at the Flatiron Institute, the Simons Foundation's computational science research center. Wide-ranging work from modeling a new black hole energy theory in Three.js and Blender, to designing Jekyll themes and an auto-documentation pipeline for a quantum physics package and drawing graphical renderings of an HPC cluster.
- Full Stack Developer for *SpikeForest*, a software suite that runs 10 different spike sorting algorithms popular with neuroscientists and visualizes the results allowing for fine-grained, drill-down exploration of 650 cellular recordings. Paper published in the prestigious journal *eLife* and presented at the preeminent Society for Neuroscience conference.
- Architect, design, and build React front end and vanilla JS visualizations for *Flathub*, an astronomical simulation data comparison tool. Sitting atop a Haskell back end and reliant on a yaml catalog schema.

#### **Haven Life**

##### Software Engineer

06/17-10/18

New York, NY

- Full Stack Developer on redesigned direct to consumer term life insurance application *Haven Life*. Lead developer for *Haven Life Plus*, an ancillary services center called "a pioneer" in the 08/18/18 issue of *The Economist*.
- Design and execute reusable metadata-driven Angular 2 components on a Node stack. Architect integrations with Indicative analytics and reCaptcha in Angular. Built a stand-alone quoting widget that was integrated in over 25 third-party sites.
- Half-time product manager for the marketing and analytics group. Write tickets and documentation for external quotes API used by product partners. Co-lead for all staff developers meeting, Isomorphic Guild, coordinating interdepartmental dependencies for 50 devs.

#### **Simple Labs, Inc**

##### Software Engineer

09/15-06/17

New York, NY

- Front End Developer on both user and admin CMS web applications *diem* (abetterdiem.com), *SwellBaby*, and *Swellist*.
- Design and execute reusable React components in ES6 with JSX on a Node/Express stack using Redux and Flux

architecture, React Router, and Webpack builds. Visualize admin data using d3.js library. Update API routes as needed.

- Completed refactoring of fragmented CSS on admin and user stack into modular SASS while taking into account browser compatibility, mobile performance, and responsive layouts.

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## EDUCATION

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<b>The Flatiron School</b> Web Development Fellow	2015
<b>The University of Texas at Austin</b> MS in Information Science	2014 GPA 4.0
<b>Hunter College</b> Coursework towards a Masters in Art History	2009-2011
<b>University of California Santa Barbara</b> BA with High Honors in French and International Relations	2004 GPA 3.8
<b>Institut d'études politiques de Paris</b> International Program Diploma	2004 GPA 3.8

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## CULTURAL EXPERIENCE

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<b>Harry Ransom Center</b> <u>Graduate Research Fellow</u>	08/12-07/14 Austin, TX
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- Served as the reference contact for visiting scholars at the preeminent archive, library and museum. Answer reference queries and assemble resources in a collection of over 42 million manuscripts, 1 million rare books, 5 million photographs and over 100,000 works of art. Process digitization orders, quotation and image rights clearances.
- Oversaw production of 3-5 digital collections annually: process collection materials, compose didactic text, compile metadata, digitize materials, conduct ingests, translate texts, and facilitate transcriptions. Collaborated with Art History Professor Glenn Peers to compile a selection of archival holdings across Art, Books, Manuscripts, Performing Arts, and Photography departments for a semester course on representations of Jerusalem.
- Lectured on collection items for visitors. Author blog posts on materials and digitization projects. Assemble vitrine exhibitions highlighting recent scholarship based on HRC holdings.

<b>Wallspace Gallery</b> <u>Gallery Manager</u>	2009-2011 New York, NY
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- Managed a small, well-respected contemporary art gallery that presented 6-8 gallery exhibitions annually and represented a roster of 20 artists. Supported co-owners in conducting sales. Liaised with museums to facilitate loans and exhibitions of represented artists. Oversaw calendar and fabrication; generated production budgets. Negotiated with numerous vendors to realize artists' vision. Supervised installation crew to realize hanging of art in the gallery. Curated summer group show. Wrote PR copy.
- Organized 3-4 art fair participations annually, including international fairs. Presented works to curators and clients. Arranged staff and artist travel; installation of booth. Oversaw install crew. Coordinated all hospitality and events: planned opening receptions for each exhibit, client dinners, and performances.
- Handled registration for an inventory of over 5000 objects—maintained database, physical inventory, coordinated transport, storage, and installation of works.

**Peres Projects (Terence Koh)**

2008-2009

Studio Manager

New York, NY

- Studio manager for artist Terence Koh, in a year he participated in 20 international exhibitions including the Sobey Art Awards. Oversaw inventory database, calendar, production schedule, and budgets. Cataloged all works on paper, performance documentation and limited editions in coordination with several representing galleries. Acted as press agent and maintained archives.
- Curated bi-monthly exhibitions and performances at the artists' Asia Song Society studio space including early performances by Shanye Olivier of Hood By Air and the first SALEM show in NYC. Received coverage in NY Times T Style for a curated pop-up shop of limited edition works. Negotiated sales of exhibited works.
- Coordinated materials and logistics for Koh's expanded practice including performance, sculpture and set design, lectures, editorial, and print work. Used HTML, Flash, and Photoshop to produce digital content for artist's conceptual website 3-5 days per week.

**Whitney Museum of American Art**

2007-2008

Curatorial Assistant

New York, NY

- 2008 Whitney Biennial. Coordinated loan requests, installation, transit, and image materials for 20 artists in the exhibition. Worked with Art Production Fund on related performances by exhibition artists.
- Assisted Atria Branch Director and Curator. Liaised with artists, gallerists, outside curators, and other museum staff to facilitate exhibitions and new commissioned works. Prepared acquisition materials for new media and contemporary works. Maintained TMS database records for all art objects.
- Researched, drafted and/or copy edited educational materials and catalog essays. Designed exhibition proposals and presentations for the Board of Trustees and Curatorial Committee.

**Museum of Contemporary Art Santa Barbara**

2004-2007

Curatorial Assistant

Santa Barbara, CA

- Met with artists, galleries, outside curators, and Executive Director to facilitate the presentation of 16-18 exhibitions annually. Acting as Registrar, oversaw exhibition planning and installation. Maintained inventory database, organized shipping, prepared materials for transport, and oversaw installation.
- Directed emerging artist program, Call for Entries. Organized an open-call, review and presentation of 150 finalists to panel. Curated selected artist exhibitions and wrote supporting publications. Also curated Bloom Projects series of emerging artist project room commissions. Selected works, oversaw budgets and related publications. Authored artist essays, didactic and press materials.
- Oversaw the production of all publications and marketing materials, including: research, design, images, credit pages, and proofreading.

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**TECHNICAL SKILLS**

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Programming

JavaScript, Node.js, Express, D3.js, Three.js, React, Redux, Angular, Jest, Cypress

Ruby, Rails, PHP, Python, Haml, Pug

GraphQL, SQL, MongoDB, AWS, Docker, Kubernetes

CSS3, SASS, HTML5

Design / Prototyping

Sketch, Photoshop, Illustrator

Blender, Axure, Omnigraffle

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**SELECTED PUBLICATIONS**


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- Lindstrom, Nils & Sealfon, Rachel & Chen, Xi & Parvez, Riana & Ransick, Andrew & Brandine, Guilherme & Guo, Jinjin & Hill, Bill & Tran, Tracy & Kim, Albert & Zhou, Jian & Tadych, Alicja & Watters, Aaron & Wong, Aaron & Lovero, Elizabeth & Grubbs, Brendan & Thornton, Matthew & McMahon, Jill & Smith, Andrew & McMahon, Andrew. (2021). *Spatial transcriptional mapping of the human nephrogenic program*. *Developmental Cell*. 56. 2381-2398.e6. 10.1016/j.devcel.2021.07.017.
- Magland, Jeremy & Jun, James & Lovero, Elizabeth & Morley, Alexander & Hurwitz, Cole & Buccino, Alessio & Garcia, Samuel & Barnett, Alex. (2020). *SpikeForest, reproducible web-facing ground-truth validation of automated neural spike sorters*. 10.7554/elifesciences.55167.sa2.
- Lovero, E. & R. Weil. (2014, October) *Citizen Scholars: Online Knowledge-Building in the Visual Arts*. Paper presented at Mid-America College Art Association, San Antonio, TX.
- Lovero, E. (2014, August) *Crowdlearning Center*. Presented at iSchool Showcase. Austin, TX.
- Lovero, E. (2014, April). *Mad Skills: Quality control with Open Badges in crowd work platforms*. Presented at iSchool Showcase. Austin, TX.
- Lovero, E. (2014, March). *Overcoming the W.E.I.R.D. Bias in Educational Design*. Lecture presented at BiTHouse 2014 South by Southwest Interactive, Austin, TX.
- Lovero, E. (2013, Fall). *Luke Barber-Smith*. *Top Magazine*, (4).
- Lovero, E. (2011). *Wireless*. Santa Barbara: Museum of Contemporary Art Santa Barbara.
- Bondaroff, A., & Lovero, E. (2009). *My Life in T-shirts: The Autobiography of Aaron Bondaroff*. New York: And Press.
- Lovero, E., & Fitzpatrick, L. (2009). *Leo Fitzpatrick: F\*\*k Friends*. Miami: O.H.W.O.W.
- Lovero, E. (2007). *True Métier*. Santa Barbara: Contemporary Arts Forum.
- Lovero, E. (2006). *Unearthed: Graham Bury and Danielle Rubi*. Santa Barbara: Off-Axis 2006.
- Lovero, E. (2006). David Florimbi, *Imminent Domain*. Santa Barbara: Contemporary Arts Forum.
- Lovero, E. (2006). *Something New for Another Sunny Day*. Santa Barbara: Contemporary Arts Forum.
- Lovero, E. (2006). Amy Gartrell, *Growing Flowers By Candlelight, Pt II*. Santa Barbara: Contemporary Arts Forum.
- Luis Gispert, & Reed, J. (2005). *Stereomongrel*. Santa Barbara: Contemporary Arts Forum.
- Lovero, E. (2005). Francesca Gabbiani, *Les Fleurs du Mal*. Santa Barbara: Contemporary Arts Forum.