

Work History

Whitney Museum of American Art

New York, NY

3/2015–6/2017 (Employee)

Software Engineer / Freelance Developer

6/2018–11/2018 & 1/2023–2/2024 (Freelance)

- Played a key role in designing and building a custom Rails CMS during a multiyear project to replace and migrate the Whitney Museum's previous 10,000 page vendor-built CMS.
- Worked closely with curators and other non-technical staff on exhibition specific website features.
- Helped maintain internal tooling for staff communication, such as our Drupal internal staff website and our Wordpress volunteers site.

The Markup

New York, NY

10/2021–6/2022

Android Researcher and Engineer

- Conducted research on Android OS APIs to identify methods for monitoring third-party app behaviors, contributing to investigative journalism.
- Developed a fully-featured Android application, ensuring design fidelity to Figma drafts.
- Heavily audited the application to make sure the data it was generating was reliable and could be used for rigorous investigative journalism work.

Linked by Air

Brooklyn, NY

10/2018–8/2020

Senior Software Engineer

- Developed new features for our Rails CMS [Economy](#). This involved working closely with our clients at cultural institutions such as Columbia GSAPP, Yale Architecture, the Shed, and others.
- Led Engineering team for rewriting the [Hirshhorn Eye](#) mobile React application to work with other Smithsonian Museums (initially NMAAHC, NMAfA with plans for Natural History museum and others), as well as the State Department's National Museum of Diplomacy.
- Architected AWS provisioning and deployments for [The Shed](#) using terraform and packer.

Probable Models

Bricolage Theater, Pittsburgh, PA

2/2019–10/2019

Senior Software Engineer

- Helped lead development on React Native and TypeScript mobile applications for iOS and Android used in [Project Amelia](#), an immersive theater performance at Bricolage Production Company.
- Led development on the mobile React frontend application which ran inside of a webview in our mobile application.
- Setup CI processes for our application, including an automated Android and iOS build using Fastlane.
- Maintained monitoring pipeline through Sentry for our React and Python applications.

Rent the Runway

New York, NY

9/2013–5/2014

Software Engineer

- Managed the front end infrastructure and designed new UI components to be used throughout the website.
- Participated in a special task force to eliminate tech debt. Led the part of the team that consolidated our repositories.
- Designed many of the landing pages for the site, such as the showroom page and mobile app page. Worked closely with the design and mobile team to get the best looking page possible.
- Designed a new date picker for Rent the Runway and participated in UX planning sessions on the implementation of the date picker.

Technical Lead (Volunteer)

- Collaborated on building [Chatlands Horizons kickstarter](#) features – from planning the requirements in GitHub issues, to drafting the designs in Figma (collaborating with others to ensure good user experience), to implementing the designs in code.
- Leveraged Node.js, React, PixiJS, and TailwindCSS to create a modern version of Chatlands.
- Architected and managed all deployment and build tooling using Docker, Docker Compose, Yarn, Vite.js, and GitHub Actions.

Education

Master of Arts, Mathematics, University of Kansas, Lawrence, KS (2011-2012) GPA: 3.74
– *passed with honors*

Bachelor of Arts, Mathematics and Fine Art (painting), University of Kansas, Lawrence, KS (2006-2011) GPA: 3.21

Skills

Languages, JavaScript, TypeScript, Ruby, Python, C#, CSS, HTML, some experience with Java & Kotlin

Libraries, Platforms, & Concepts, AWS, Node.js, TailwindCSS, React, Express.js, Vue, PixiJS, Unity, MySQL, Ruby on Rails, Memcached, Android, AWS, A/B testing, Linux CLI and shell scripting in general, Heroku, Nginx, HTTP, Websockets, DNS

Volunteering & Experience

Free Tutoring, Portland, OR, 7/13-Present

Providing free one-on-one math and technology tutoring to individuals seeking career advancement and educational success, including GRE preparation and coding mentorship. Taught multiple people frontend development tech skills that eventually got them positions in the industry.

ScriptEd, New York, NY, 7/13-3/15

Designed lesson plans to teach computer programming to students in low-income high schools. Teaching HTML, CSS, and JavaScript at AoIT high school in Brooklyn to low-income students to provide them with equal access to tech skills and jobs.

Silent Barn, New York, NY, 7/13-12/13

Managed bi-weekly updates via email to donors of the DIY art space Silent Barn. Helped think up and design online content to make Silent Barn's internal art-bartering currency system, barnacles, more effective and to encourage participation in the donations system.