



John Loy

Web Software Engineer

During my time designing and building for the web over the past 25 years, I have worn the hats of Webmaster, UX designer, back-end engineer, front-end engineer, and technical lead. My past and current professional roles demanded I continually adapt my skills to meet each new challenge, whether that entailed designing, coding, architecting, leading development teams, or working with clients and stakeholders. Lately, I might call myself a front-leaning full-stack engineer, focused on a React + TypeScript + Node stack, but I prefer to just call myself experienced, versatile, and adaptable.

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🔗 johnloy.github.io

🐙 [johnloy](#) (GitHub)

👤 [johnmloy](#) (LinkedIn)

Work Senior Software Engineer

Dreamworks Animation, NBC Universal

Feb 2022 – Present

Developed custom web applications to support the data management needs of animators and other specialists involved in film production at the Dreamworks Animation film studio.

- Developed and maintained a web-based file transfer tool to facilitate safely exchanging film assets between Dreamworks and vendors
- Developed and maintained a web-based tool for inspecting the readiness of 3D model assets, including a WebGL-based 3D model viewer
- Developed and maintained a web-based digital "backlot" tool for retrieving and reusing digital assets used in past Dreamworks films
- Assisted with development and management of a visual design system of UI components for use in Dreamworks web-based applications
- Built documentation sites with Jekyll, Astro, and Storybook for internal tools, including Dreamworks' OpenMoonray project <https://docs.openmoonray.org/>

Staff Engineer

WillowTree

Nov 2018 – Dec 2021

Architected, developed, and advised in a senior client-facing capacity to produce web applications for multi-platform client projects.

- Developed the first version of the <https://sigmasquared.io/> HR tool for talent optimization, providing D3.js-based visualizations for data analysis
- Developed features for an internal supply chain management application for Anheuser-Busch InBev using React, TypeScript, Docker, Node (API), SQL Server, and Azure
- Migrated a Chrome/Firefox web extension to Safari for Capital One using Angular, TypeScript, and XCode
- Led an initiative to migrate the WillowTree website from a React SSR SPA to a static JAMStack site using a custom SSG build tool built on standard Web Components and Netlify
- Mentored colleagues at WillowTree, particularly about web standards and the web platform
- Used a variety of front-end frameworks and technologies, including React, Angular, Web Components, and TypeScript

Senior Engineer

WillowTree

Nov 2015 – Nov 2018

Architected, developed, and advised in a senior client-facing capacity to produce web applications for multi-platform client projects.

- Led development of a full rewrite of the HBO Nordic OTT streaming web application, a React+Redux+TypeScript SPA, from inception to release and maintenance
- Developed features for the HBO Nordic and Fox Chromecast applications
- Provided on-site support for the HBO Nordic client
- Mentored colleagues, new hires, and interns at WillowTree

Front-End Developer

Roomkey

Jul 2013 – Oct 2015

Developed the UI of a hotel booking meta search website.

- Developed the centerpiece autocomplete search UI involving live search filtering, search results, and geo results visualization
- Worked with Backbone.js on the front-end
- Worked with Clojure on the back-end

Ruby on Rails Developer

Scitent

Mar 2011 – Jun 2013

Developed custom LMS solutions, primarily for the health care industry.

- Executed a rewrite in Rails of the flagship Scitent web-based learning management system, tailored to clients like the American Heart Association
- Worked with Backbone.js and Knockout.js on the front-end
- Worked with Ruby on Rails and MySQL on the back-end

Web Developer

Intalgent

Aug 2009 – Mar 2011

Developed the UI of bespoke web application solutions in a small agency setting.

- Served clients from e-commerce, higher education, non-profit, and medical industries
- Developed the Youth Leadership Initiative for the U.Va. Center for Politics, a mock election web application serving tens of thousands of educators and students worldwide
- Worked with jQuery, and otherwise “vanilla” JavaScript, on the front-end
- Worked with PHP, Rails, Grails, and ColdFusion on the back-end

Web UX Designer

University of Virginia Library

Jul 2006 – Jul 2009

Stewarded the web presence of the U.Va. Library as part of the library communications team.

- Guided the library through a redesign effort, involving information architecture, visual design, SEO, technical solutions, and stakeholder training
- Developed a UI framework, templating, and CMS solution to accommodate the needs of thousands of pages and dozens of website stakeholders
- Contributed to the UI development of the library catalog search
- Conducted user research to inform ongoing site development

Webmaster

University of Virginia, College and Graduate School of Arts & Sciences

Jul 2000 – Jul 2006

Stewarded the web presence of the U.Va. College and Graduate School of Arts & Sciences as part of the A&S communications team

- Guided the College and Graduate School through a redesign effort, involving information architecture, visual design, SEO, technical solutions, and stakeholder training
- Designed, built, and maintained the first two incarnations of A&S Online, the primary web news publication of the College and Graduate School of Arts & Sciences
- Developed a custom CMS solution for A&S Online using PHP, MySQL, and Apache

Graphic Designer

Gibson Design Associates

Jul 1998 – Oct 1999

- Designed and assisted with production of print publications such as brochures, pamphlets, corporate identity packages, event invitations, and advertising displays
- Designed layout and coded websites for corporate and non-profit clients, including Monticello and the University of Virginia
- Produced illustrations as graphic elements for design projects

Education **East Carolina University**

Bachelor of Fine Arts in **Graphic Design and Illustration**

Aug 1994 – Jul 1998

Skills **JavaScript** **Typescript** **React** **Next.js** **Astro**
Vue **Web Components** **Node** **CSS** **Tailwind**
Jest **Vitest** **Playwright** **Git** **Github**
Github Copilot **Claude** **Gemini** **CI/CD**
Docker **Unix/Linux** **Bash/Zsh** **SVG** **D3**
WebGL **Three.js** **Web Animation**

Web Audio/Video Bash Zsh

Microsoft Azure Google Cloud Platform

Amazon Web Services REST GraphQL

Figma Design Systems Storybook

Web Accessibility / WCAG / ARIA

Web Performance MongoDB SQL

Azure SQL Database MySQL PHP

Wordpress Ruby Rails

Projects **Edui Conference**

Co-founder

Sep 2009 – Oct 2018

Event

A conference for web professionals in higher education

Volunteer **Habitat for Humanity**

Volunteer

May 2005

Participated in week-long Jimmy Carter Work Project building houses

Emergency Food Network

Bagger

Jul 2000 – Jan 2012

Designed the EFN logo and website. Bagged food parcels weekly for distribution to local individuals and families suffering from food insecurity.

Innisfree Village

Caretaker

Oct 1999 – Jul 2000

Provided live-in life assistance to adults with disabilities. Started computer skills program for residents.

Book Buddies

Tutor

Sep 1998 – May 1999

Tutored elementary school students in reading