

Amanda Foster

DESIGN ENGINEER · FRONT-END DEVELOPER

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PROFESSIONAL PROFILE

Front-end-focused web developer with five years of experience designing and building for the web, most recently building and migrating web applications for university libraries, archives and cultural institutions. Designs interfaces in Figma and builds them in React, Next.js and Ruby on Rails, with WCAG 2 Level AA accessibility, responsive layout and automated tests built in from the start. In five weeks, had 14 pull requests merged into open-source repository software used by institutions worldwide, and helped migrate legacy systems for Yale and Harvard library teams.

CORE COMPETENCIES

FRONT END	JavaScript · TypeScript · React · Next.js · Material UI · HTML · CSS and SCSS · Bootstrap 4 and 5 · Blacklight · ERB and HAML · Responsive layout from 320 to 1680 pixels
DESIGN	Original UI designs and wireframes in Figma · Design options for stakeholder review · Brand identity (logos, favicons, color palettes, typography) · Building the approved designs in production
ACCESSIBILITY	WCAG 2.1 AA audits and remediation · Keyboard navigation · Screen-reader techniques · Accessibility guides for developers and users
BACK END	Ruby on Rails · Node.js and Express · PostgreSQL · MongoDB · Solr · IIIF image viewers · Alma and Primo VE · MARC records
TESTING	Playwright · RSpec · Coveralls · Selenium · Jenkins CI · Security fixes (JWT, CSRF, dependencies)
DELIVERY	Docker for local development · Production releases through an existing Kubernetes pipeline · GitHub Actions · Dependabot
PRACTICE	Agentic coding with Claude Code · Git and GitHub (SAML SSO) · Open-source contribution · Technical writing

EXPERIENCE

Notch8 | Software Engineer

Mar 2022 - Oct 2026

Software consultancy that builds and hosts open-source repository and discovery software for libraries, archives and universities. Employed through Scientist.com until January 2025, when the division returned to Notch8.

- Used Claude Code for agentic development across client projects as part of the team's standard practice, with automated tests, CI checks and personal review of every AI-assisted change before merge.

Yale University Library: Quicksearch discovery platform

Mar 2023 - Jun 2026

- Redesigned the holdings record and request pages for the library's move from Voyager to Alma and Primo VE, a migration of more than 18 months. Created the designs in Figma, from first wireframes and design options through stakeholder approval, then built them.
- Audited responsive layout and accessibility across the application at screen widths from 320 to 1680 pixels, filed tickets for the issues found and fixed them. Improved WCAG 2 Level AA conformance, including revised screen-reader-only text patterns.
- Modernized the front end: migrated from Bootstrap 4 to 5, overhauled the stylesheets (Sass to SCSS, cleanup and consolidation) and helped convert 123 templates from HAML to ERB with no change to application logic.
- Secured external links against cross-window attacks. Wrote display rules for MARC records, including hierarchical genre and form facets, and fixed language mapping so records show the correct language.
- Initiated the Coveralls integration to measure code coverage, then led ticketed work that raised key models, helpers and controllers from as low as 18% to near 100%. Refactored complex helper methods into smaller, tested units.
- Wrote the team's ticket, pull request and breakpoint testing templates and developer documentation. Worked with the client's team on priorities, escalated blockers and demonstrated the new pages to stakeholders.

Harvard University Library: ACORN conservation records

Jul - Aug 2026

- Served as front-end lead migrating a paper conservation records application from end-of-life Angular 14 to React 19 and Next.js 16, porting the full application to feature parity and deploying it to production in under eight weeks. Set up the app shell, routing, design tokens and shared component library the rest of the migration followed.
- Merged 100+ pull requests across the Next.js client and the Node.js, Express and MongoDB API, from schema changes and backfill scripts to the React UI, including HOLLIS catalog integration, PDF and Excel report exports, and a TipTap rich-text editor.
- Led a WCAG 2.1 AA audit and fixed the findings, setting an accessibility baseline in Material UI for focus order, skip navigation, dialogs and keyboard use.
- Built a Playwright end-to-end suite of about 240 tests and a GitHub Actions pipeline that checks formatting, linting, TypeScript and tests on every pull request. Helped fix critical security findings (JWT cookies, CSRF, role elevation) and 25+ Dependabot alerts.
- Wrote the project wiki and worked directly with the library's conservation QA reviewer to confirm parity with the legacy system.

Samvera open-source repository platform (Hyku and Hyrax) and client platforms

Aug - Oct 2026

- Ran a production release for two multi-tenant client platforms: staging promotion, deployment through the existing Kubernetes pipeline, and before-and-after regression checks of every tenant.
- Designed the brand identities for the three HykuUP demo repositories, Ellison, Harborview and Meridian, each on a different Hyku theme: logos, favicons, color palettes, typography and site styling.
- Found a regression where a change in the shared base application overrode translations in every client customization. Surveyed all of them, shipped the fix to two platforms and tracked the rollout to the rest.
- In five weeks, had 14 pull requests merged into the open-source Hyku (11) and Hyrax (3) projects, fixing media playback, an unreadable image viewer, pages that scrolled on load, heading fonts that ignored administrator settings, inconsistent content width, navigation that overlapped page content, and unsafe auto-linked URLs.

Earlier client work

2022 - 2023

- Yale Digital Collections (2022, several months before moving to Quicksearch): front-end and viewer work on the discovery app and management tools, including Universal Viewer upgrades, Safari fullscreen fixes, Rails security updates and a Selenium test setup on Apple Silicon.
- University of Tennessee, Knoxville: built the front-end theme for the digital collections repository, including header, footer, browse grid and list views, search results, work and file pages, login, contact and about pages.
- ArchivesSpace: restyled public and staff pages and made tables responsive. Bulkrax: fixed an exporter bug in the open-source import tool and upgraded it in two client applications.

Drata | Software Engineer Intern

Feb - Mar 2021 · Carlsbad, CA

- Built features for a security compliance platform (continuous SOC 2 compliance) using React, NestJS and MySQL.
- Integrated real-time websocket updates with Pusher into an existing internal API.

Presently Media | Freelance Web Designer and Developer

Apr 2017 - Mar 2022 · San Diego, CA

- Designed and built WordPress websites, logos and branding for self-owned print-on-demand businesses and for small-business clients.
- E-commerce sites using WordPress with WooCommerce, plus Etsy shop integration and social media set-up.

EDUCATION

- **LEARN Academy** | Full-stack web development bootcamp (Ruby on Rails, JavaScript, React) | Nov 2020 - Feb 2021 | 480+ hours of coding; team capstone: a flashcard app built with React and Rails
- **Udemy** | Independent study in JavaScript, React and the MERN stack, 2019 to present
- **Palomar College** | General Studies | 1993 - 1995 | 54 credits completed
- **Fallbrook High School** | Fallbrook, CA