MANDY LLOYD

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FRONT-END ENGINEER ● REACT ● ACCESSIBILITY

Front-End Engineer specializing in **accessible**, high-performance **React** applications and design systems. **DHS Trusted Tester** certified with deep experience delivering **WCAG**-compliant federal and enterprise platforms. Proven ability to collaborate effectively with **cross-functional teams** to deliver scalable, high-quality digital solutions.

TECHNICAL PROFICIENCIES

- **Languages & Frameworks:** JavaScript, TypeScript, React, Next.js, Node.js, HTML, Twig
- **Styling & Design Systems:** CSS/SCSS, ITCSS, RTL & bidirectional styling (BiDi), USWDS, Storybook
- **CMS & Platforms:** Drupal, Hugo, Gatsby
- **Accessibility:** WCAG 2.1 AA / Section 508, DHS Trusted Tester, ARIA, screen reader & keyboard testing
- **Internationalization & Localization:** i18n & l10n strategy, translation-ready architecture, multilingual implementation
- **Testing & Quality**: Mocha, Lighthouse, regression & cross-browser testing
- **Tools:** Git/GitHub, Bitbucket, Gulp, Docker, Bash/CLI, Agile methodology
- **Other:** REST APIs, SEO optimization, performance optimization, Google Analytics

RECENT WORK EXPERIENCES

HAVAS CX – REMOTE/FREELANCE, NYC
JULY 2025 – AUG 2025

SENIOR ENGINEER

- Built visually-precise, performant React components from Figma designs, contributing to polished user interfaces aligned with modern design systems.
- Collaborated cross-functionally to deliver responsive, accessible UI aligned with evolving design system standards.
- Ensured quality UX and accessibility by applying WCAG standards and performance best practices.
- Contributed technical insight to align implementation with broader architectural goals and improve the team's front-end workflow.
- Strengthened code quality through detailed pull requests and peer reviews.

Senior Engineer, nyp.org | *Tools: JavaScript, React, Tailwind-like custom framework*

- Delivered production-ready UI components from Figma designs, implementing full functionality and styling within a custom Tailwind-like framework.
- Improved accessibility and usability by auditing and enhancing shared components to align with WCAG and Section 508 best practices.
- Raised code quality and team consistency through thorough code reviews and clear, detailed pull requests.
- Enabled smooth downstream implementation by contributing to documentation and supporting component handoff to external implementation partners.

BIXAL – REMOTE, FAIRFAX, VA
MAY 2021 – APR 2025

SOFTWARE ENGINEER

- Shipped production-ready, scalable React features across high-traffic platforms, focusing on performance, accessibility, and reliable user experience.
- Translated business and product requirements into clean engineering solutions, often working from ambiguous or evolving specifications.
- Collaborated across design, backend, and product teams to refine UI interactions, improve usability, and support UX consistency.
- Worked closely with accessibility specialists to test and remediate Section 508 and WCAG related issues.
- Participated in code reviews and engineering discussions, fostering maintainability, design clarity, and performance improvements.

Software Engineer, Vote.gov | *Tools: Hugo, JavaScript, React.js, USWDS, Drupal, PHP, Twig, SCSS, Gulp*

- Maintained and updated multilingual content by manually integrating client-provided translations into JSON files, ensuring accuracy prior to CMS localization support.
- Contributed to the migration from a static Hugo website to a scalable, multilingual platform, replacing manual JSON-based translations with a safer, client-managed full-site localization workflow.
- Conducted performance audits to the original Vote.gov site and applied remediation strategies to raise failing scores to near-perfect performance ratings.

- Contributed to the full-site redesign process start-to-finish of Vote.gov using Drupal CMS, integrating a React application to support digital National Voter Registration Form submissions, and implementing Figma-based designs.
- Participated in weekly client calls to give site updates, research findings, present finished or on-going work, and sprint planning.
- Conducted code reviews with detailed feedback and plans for remediation when necessary.

Software Engineer, National Voter Registration Form – Vote.gov | *Tools: React.js, Drupal, USWDS, SCSS*

- Delivered a dynamic, state-aware multi-step registration form in React using USWDS components, ensuring users only saw fields applicable to their state and reducing confusion and form errors.
- Helped translate complex, state-specific voter registration requirements into conditional form logic during early requirements analysis, enabling a single scalable form across all states.
- Implemented accessible validation and error handling (error summaries, field-level messaging, focus management, screen reader support), meeting WCAG 2.1 AA / Section 508 standards for a high-risk, public-facing form.
- Enabled CMS-driven updates via Drupal, allowing non-technical stakeholders to adjust required vs optional fields as state rules change without redeploying code.
- Supported team growth and delivery by mentoring client-side and internal junior developers and collaborating closely with designers, engineers, and accessibility specialists throughout the project.

Software Engineer, United States Web Design System | *Tools: Storybook, JavaScript, CSS, Mocha.js*

- Contributed to the U.S. Web Design System, enhancing federal websites with user-centered design and accessibility, ensuring compliance with government standards.
- Initiated refactoring efforts to adopt CSS logical properties across the codebase, enabling more robust RTL support and improving long-term maintainability for multilingual, accessible federal sites.
- Contributed to extensive documentation including internal processes, component testing trackers, detailed pull requests, GitHub issues, and updating the USWDS site component pages with test results, latest updates, user use instructions, etc.
- Participated in client meetings to offer issue updates, discuss higher-level decisions, and prioritize sprint work.
- Monitored the community Slack channel to give assistance to any users reaching out for help.
- Assisted other engineers in troubleshooting and resolving bugs.

Software Engineer, GHsupplychain.gov | *Tools: React.js, Drupal, PHP, CSS*

- Maintained a complex React app embedded within the Drupal site for visualizing global health supply chain data under USAID's Global Health Supply Chain Program.
- Implemented new data provided by the client biennially.

Junior Software Engineer, Bixal.com | *Tools: Gatsby.js, React.js, MySQL, CSS*

- Maintained the company website, enhancing the digital experience for clients and employees.
- Improved engineering documentation and detailed new processes for content team and other non-technical team members.
- Built case study templates according to content needs.

Junior Software Engineer, Interactive Timeline – DEAmuseum.org | *Tools: React, Drupal, JavaScript, CSS*

- Developed a dynamic React application showcasing the history of drug abuse in America, with an embedded Drupal block allowing site admins to customize the app's color scheme and content.
- Participated in client meetings offering technical advice, updates, and took meeting notes.

EDUCATION & CERTIFICATIONS

Bachelor of Science (BS) in Mass Communications; Concentration in Strategic Advertising – VCU Richmond, VA

Associates of Fine Arts (AFA) – Northern Virginia Community College, Woodbridge

Certification—Coding Bootcamp – University of Richmond, Richmond, VA

6-month full-stack boot camp for building web applications

Certification—Trusted Tester Certification – U.S. Department of Homeland Security (DHS)

Completed DHS Section 508 Trusted Tester Program for Web, certifying ability to evaluate and validate federal websites for WCAG 2.0 Level AA and Section 508 compliance using the DHS Trusted Tester process.