REBECCA SHOPTAW

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SUMMARY

Enthusiastic and versatile full-stack software engineer with a track record of shipping high-impact features and fixes for large-scale applications, including an Internet Archive site with over 30 million monthly visitors. Highly organized, highly motivated, and proficient across the stack.

HIGHLIGHTS

- Delivered a modern and user-friendly new registration process for the Internet Archive's Open Library site, executing a full page redesign and adding 9 new validation checks using JavaScript, HTML and Python
- Optimized the site's internationalization process, reducing the delay for new text translation from up to 6 months to less than 5 minutes by building a Python-based automation tool
- Generated immediate impact for a group of middle school students by propelling a Duolingo-esque vocab practice game from initial concept to first launch in < 24 hours with TypeScript, React, and HTML/CSS

SKILLS

Primary frontend stack: React | TypeScript | JavaScript | HTML | CSS |Next.js | Vercel | **Backend:** Python | Node.js
Mobile: React Native | Swift | **Design & Styling:** SCSS | Tailwind CSS | Figma | **Workflow:** Git | Jest | Docker | CI/CD

PROFESSIONAL EXPERIENCE

Internet Archive San Francisco, CA (Remote)   *December 2023 - Present*
Engineering Fellow, Frontend and Internationalization Lead

- Shipped 25+ high-impact features and fixes as a fellow for a library site with 30M+ monthly visitors, ensuring code quality, maintainability and consistency with thorough end-to-end testing, linting and documentation
- Overhauled the site registration UI/UX by taking ownership of, scoping, architecting and implementing a clear and efficient 13-step project roadmap, iterating on ideal solutions by envisioning the end-user perspective
- Collaborated with a fast-paced, cross-functional team of 15 via weekly meetings, code review, frontend and backend architecture best practices, and continuous integration/continuous delivery (CI/CD) workflows
- Optimized engineering processes by automating updates to a critical 3,000-line file via a custom Python CI tool and pre-commit hook that assesses each incoming site feature and makes automatic updates as needed
- Mentored developers and performed 3+-round PR reviews as a frontend and internationalization (i18n) lead
- Enhanced site's global accessibility by proposing and overseeing bulk re-formatting of 300+ lines of previously untranslatable text, and ensured continued translation by writing a 12-part i18n documentation guide
- Realized a clean, responsive new sign-up UI, syncing with the design team to realize a 3-part Figma mockup
- Yielded a 30% reduction in cover upload time by revamping the UX and replacing outdated JavaScript methods
- Identified optimal solutions by diving deep into the 18-year-old codebase to solve complex issues at the root

Freelance New York, NY (Hybrid)   *October 2023 - April 2024*
Software Engineer

- Increased responsiveness, performance and scalability by up to 80% by overhauling and rebuilding client sites, transforming basic HTML sites and single page profiles into seamless, modern React-TypeScript applications
- Reduced page creation time by > 90% in a TypeScript and Next.js rebuild of a SquareSpace site by using SOLID design principles to replace 13 individually-generated pages with a simple, reusable React component
- Transformed one site's scalability and extensibility by using SOLID design principles to distribute the logic among 25 reusable, modular React components and 8 custom hooks and TypeScript helper functions
- Orchestrated site expansion by making the 10 customized style and content data points entirely dependent on a TypeScript object so as to achieve full reusability for a React UI
- Delivered a > 89% reduction in main component length in a single week by spearheading a thorough streamlining, refactoring and restructuring process

EDUCATION

Yale University New Haven, CT, 2018
B.A. cum laude in Film and Media Studies

- Mastered JavaScript, HTML, CSS, C, SQL, and Data Structures and Algorithms
- Taught self Swift by taking a video-editing iOS app from ideation to completion in under 3 weeks
- One of only 20 students out of over 500 with a project selected to be featured in CS50 year-end course showcase video