James Espy || Software Engineer

jespy2@gmail.com • 512.576.6181 • gitub.com/jespy2 • linkedin.com/in/jamesespy

Technical Skills

React, Typescript, JavaScript, HTML, SASS/SCSS/CSS/Tailwind.css, Next JS, Redux, Docker, Go, Node.js, Express, Redis, Python, R, Postgres, NoSQL, Wireframing/UX design, OAuth, Agile, Version Control (Git/Github), TDD (Jest, React Testing Library), Component Libraries (AntD, Bootstrap, Semantic-UI)

Experience

DigiCert || Software Engineer   2021-2023

- Lead frontend engineer on fast-moving, greenfield team building internal tooling to support a rapid-growth strategy, including developing workflows for unifying UI/UX design for products developed by team.
- Spearheaded initiative to re-engineer Workflow Manager, the primary organizational tool used by globally distributed auditing team, which generated $500MM+ in annual revenue. Researched/designed the product, utilizing React/Typescript for the UI, leveraged NextJS for SSR and improved dev efficiency, Tailwind for styling and utilized Go to clarify API dataflows from backends developed by other engineers. Optimized to reduce cognitive friction for users via improved UX design, upgraded essential features to improve core functionality, improved speed and reliability of the platform, as well as increased extensibility and limited potential tech debt in alignment with the larger corporate rapid-growth and five-nines uptime roadmap. Applied rigorous clean code and declarative code best practices to make codebase more accessible to associate engineers to reduce long term cost of running the platform.
- Maintained UI codebase for Certificate Authority team. Identified and patched bugs, added new features and business logic, and lead integration of components from in-house common library for brand consistency and accessibility compliance.
- Partnered with UX department for product planning. When this workflow was blocked, worked directly with team PM to develop UX designs independently, including utilizing Adobe Creative Cloud to generate mockups, custom iconography and style guides.
- Improved "code confidence" by expanding test coverage and implementing strong typing by updating JavaScript code to TypeScript.
- Collaborated with other engineers on product development and planning. Contributed to concept and design with team architect and PM, as well as mentoring associate to senior-level engineers working in frontend code bases.
- Helped develop effective yet empathetic team culture through mentorship, revision of Agile methodology for improved team efficiency, and collaborating with senior engineers and management to support growth and success of associate engineers.
- Utilized and built upon existing component/styling libraries to ensure consistent, standardized branding and efficient workflows.

RedisHawk || Open Source Redis Monitoring App   2021

- Developed an application that monitors granular keyspace details and events in Redis deployments.
- Utilized Node.js in event-driven architecture for efficient/asynchronous monitoring of Redis deployments, handling HTTP requests.
- Implemented an Express server to build RESTful API routes to process requests for monitored Redis data.
- Applied efficient data structures and algorithms such as doubly linked lists to optimally store, retrieve, and remove logged data.
- Used React Router to establish static routes to navigate through multiple components, enhancing the speed of page loading while handling high volume server responses and minimizing calls to the server from the SPA.
- Leveraged Redux to create single source of truth for unrelated stateful and functional components.
- Used SCSS and Material UI for UX-centric design and global styling for brand consistency.

Freelance Web Design   2009-2021

- Designed and deployed web-based content with React, HTML/CSS and JavaScript for small businesses.
- Collaborated with owners and decision-makers to incorporate branding, sales funnels and secure online transactions into the UX/UI design. Built wire-frames using Adobe Creative Suite products to pre-visualize web-based products for clients.

Traditional Martial Arts Academy || Business Owner   2005-2022

- Deployed open source PHP CMS platform with MySQL DB to serve as an online sales/marketing hub. Used CRM software to manage clients and cash flow. Built and applied algorithms to generate summary statistics and strategic projections.
- Engineered proprietary virtual learning platform in response to COVID lockdown

Additional Open-Source Products

Multicommunicado || Language Translation Product   2021

- Refactored legacy React and Redux code to improve modularity, state management, and efficient integration with Express server. Added conditional rendering in React for rapidly deployed single-page navigation without the need for routing. Applied global styles principles to improve UX in SPA by creating an aesthetically pleasing UI with consistent branding and clarity of functionality.

ConcentriQL || Social Scheduling Product   2021

- Leveraged Express to build middleware and routing to manage database queries and send appropriate responses.

Public Talks and Publications

Single Sprout Software Engineering Speaking Series || UX Design
Medium || redis-hawk: granular Redis monitoring

Interests

martial arts, whiskey and beer, long motorcycle trips, playing drums, camping, cooking multicultural meals with my two instant pots, eating those multicultural meals from my two instant pots, video games with my daughter, quiet jigsaw puzzles with my wife, loud movies with explosions for me

Education

University of Texas, Austin || Asian Studies