

James Espy || Software Engineer

jespy2@gmail.com • 512.576.6181 • EspyWebDesign.com • 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 || Senior 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 **React/Typescript/SASS** codebase for Certificate Authority team. Identified and patched bugs, added features and business logic, and lead integration of components from in-house common library for brand consistency/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 increasing 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.js** 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

Multicomunicado || Language Translation Product

2021

- Refactored legacy **React** and **Redux** code to improve modularity, state management, and efficient integration with **Express.js** 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.js** 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

Education

University of Texas, Austin || Asian Studies

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