

Josef Faulkner
Senior Front End Developer
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I have over 20 years of experience developing and maintaining enterprise web applications.

Work Experience:

Senior Software Engineer - Tyler Technologies - Plano, TX
December 1998 - June 2022

- Co-created the most widely used electronic filing platform for civil courts in the US. It now generates several million in revenue every year and has helped courtrooms go paperless.
- Designed and developed a smart form authoring tool which allows court staff to author complex and dynamic forms with zero programming skills.
- Contributed to a design system by developing, documenting, and supporting vanilla web components. Made the components available in Framer for interactive demos and rapid prototyping by designers.
- Refactored and organized the front end of a legacy online dispute resolution application, replacing the existing jQuery front end with Angular 7 without altering the back end, data model, or web service API.
- Created an MVP generic business intelligence web application to monitor the efficiency of courts, using d3.js and NVD3 to produce graph and chart visualizations with minimal need for configuration.
- Refreshed the UX and improved consistency of a public portal allowing citizens to access court records, while fixing defects, mitigating web scrapers, increasing security, and implementing new features.
- Periodically held empathy labs to raise awareness of UX accessibility concerns (WCAG, ARIA, etc) and how to use tools and browser extensions to validate accessibility.
- Independently supported a major client's legacy e-filing application performing DevOps duty keeping the site running and resolving workflow issues with errant filings.
- Mitigated a potential outage by rapidly implementing a completely client-side autocompleting search engine for a court management knowledge base.
- Migrated a windows native application to the web without any loss of features.
- Designed and developed a chat application for companies to provide customer support from their website.
- Wrote several e-commerce applications from scratch.

Core competencies:

- Vanilla JavaScript
- Rapid prototyping
- Web components
- Native browser API
- Framework migration
- Performance optimization
- Security & Accessibility
- Functional programming
- Async orchestration
- Responsive design
- Attention to detail

Primary Skills:

- JavaScript, HTML5, CSS, WCAG, SEO
- Angular, React, Material UI, Bootstrap, KnockoutJS, jQuery
- SPA, PWA, MFE, UX responsiveness, localization
- Web components (custom elements, shadow DOM, HTML templates)
- Web workers, mutation observers, local storage, functional event loop, canvas, SVG
- Digital media generation, presentation, conversion, editing, and optimization
- Pixel-perfect prototypes with simulated service calls and realistic mock data
- Technical project management, scrum, kanban, lunch and learns, code review diplomacy
- Webstorm, Visual Studio, GitHub, DevTools, Firebug, Fiddler, Charles, NVDA
- Web Application Security above and beyond OWASP
- Automated testing with Puppeteer, Jasmine, Jest

Skills Development:

- More experience with TypeScript, C#, Java, Go, Python, and/or Ruby
- Expand my web design skills and learn more formal design concepts
- Expand my experience with Node.js
- Cloud native architecture for web applications
- Automated container deployment with Docker, K8s, etc.
- Giving presentations, live coding, peer programming

Interests:

- machine learning, prompt engineering, NLP, LLMs, GPTs,
- astronomy, astrophysics, biology, quantum computing and physics, meteorology
- cellular automata, fractals, data compression, simulations, automation
- museums, makerspaces, hiking, walking, exploring nature
- perception, empathy, philosophy, meditation, zen, cats

<https://www.linkedin.com/in/faulknerjosef/>