Timmy Willison

Contact Information

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jQuery Core Lead & Senior Software Engineer

Senior Software Engineer with 15 years experience and strong fundamentals in both front-end and back-end technologies, specializing in JavaScript (and TypeScript). Enjoys building scalable web infrastructure and fast, beautiful websites and applications.

Experience

PYLON AI | LEAD SOFTWARE ENGINEER | DEC 2016 - PRESENT

- Engineered Worbler AI, a complex, responsive AI media editor with advanced interactivity and animations in Next.js to create custom video and audio using Pylon's generative AI models. Maintained 95-100% Performance, SEO, and Accessibility scores in automated testing.
- Delivered Spokestack websites running on GatsbyJS, Next.js, and GraphQL and open source tools for use in Node.js and React Native to allow for easy integration with Spokestack's APIs built by the back-end team. Wakeword activation time kept below 0.2s across platforms.
- Developed a suite of React Native apps demonstrating Pylon's voice technology, such as Radiobrain, a music app with wakeword voice activation and voice commands, and Tasted and Bartender, companion apps for Alexa skills (with feature matching web apps).

OPENTABLE | SENIOR SOFTWARE ENGINEER | DEC 2013 - NOV 2016

- Spearheaded the initiative to automate performance testing using webpagetest.org of all OpenTable websites, improving site load performance by 20-40%.
- Pioneered a migration of the codebase to modern JavaScript, which led to a reduction in the total JavaScript payload of opentable.com by 15-25%.
- Collaborated with teams to maintain and produce web applications, websites, widgets, and servers, using AngularJS, React, Node.js, Babel, and Smartling serving over 20 countries and over 1 billion diners per year.

QUICKCUE | LEAD FRONT-END ENGINEER | DEC 2011 - DEC 2013

- Played a major role in OpenTable's acquisition of Quickcue; developed the first version of a native iPad app for restaurants to manage waitlist and reservations, without any prior experience in Objective-C.
- Constructed the Quickcue website, using Node.js, Express, and PostgreSQL, with a speed index kept below 3s.

Projects

JQUERY

- Lead a team in the maintenance and engineering of jQuery Core, a JavaScript library used on 80-90% of all websites worldwide, and other jQuery projects.
- Modernize the infrastructure of all jQuery websites, improving security and ease of maintenance, and help maintain the jQuery CDN, serving over 2B requests per month.
- Completed the overhaul of Continuous Integration and testing infrastructure for all active jQuery projects, decreasing dependencies by 12%; decommissioned old, unused services which reduced testing cost to zero.

HEALTHYWEB.ORG

- Orchestrated the development of healthyweb.org, a tool geared towards improving the overall security of the web not only to encourage upgrading jQuery, but to promote security audits across the board.
- Built with Astro, Svelte, and Puppeteer and hosted serverless using Cloudflare Pages and Cloudflare Workers.

PANZOOM

- Created a JavaScript library to add panning and zooming functionality to HTML and SVG elements using CSS transforms, enabling hardware acceleration; over 38k weekly downloads on npm.

Education

BACHELOR OF ARTS IN COMPUTER SCIENCE, MAY 2010

Covenant College, Lookout Mountain, GA

Cum Laude

Skills

JavaScript & Typescript, Next.js, Svelte, React, Gatsby, Astro, React Native, GraphQL, TailwindCSS, Amazon Web Services, Cloudflare, Docker, Playwright, Webpack, Rollup, Vite, CircleCI, GitHub Actions, Agile