

Joe Webster, Software Engineer

✉ joe.scott.webster@gmail.com 🌐 joeswebster.com 🌐 joeswebster 📧 joewebsta 📍 Boston, MA

Experience

Open Source Software Engineer, Mozilla: Firefox Picture-in-Picture Team - Remote 2024

- Developed a JavaScript video wrapper for JWPlayer, enabling Firefox's Picture-in-Picture feature to display subtitles for the media player on specific domains.
- Expanded JWPlayer's Picture-in-Picture subtitle support across 16 domains, including popular sites like IMDb, Time, Reuters, and CNBC, enhancing accessibility for Firefox users.
- Enhanced Firefox's Picture-in-Picture functionality for the Venmo media player by adding support for WebVTT (web video text tracks) subtitles.

Creator & Software Engineer, Otto (www.otto-etl.com) - Remote 2023

Otto is an open-source, web-based, and automated ETL (extract, transform, load) pipeline tool that extracts business data from multiple sources, transforms the data, and loads the results into a target database

- Designed and built a user interface using React, React Flow and Material UI that allows users to create, modify and execute node-based workflows where each node contains ETL specific metadata
- Constructed a system that allows users to transform multiple sources of extracted data by submitting their own arbitrary custom JavaScript code to the backend using the CodeMirror code editor and Node.js VM
- Designed a recursive algorithm using JavaScript promises and memoization that enabled the execution of parallel tasks and increased a workflow's maximum nodes from 5 to 30+
- Implemented real-time execution log streaming from the backend to the frontend via server-sent events which empowers users to diagnose workflow failures and bottlenecks
- Led agile standups, sprint planning sessions and weekly retrospectives for a four-person remote team

Front-End Developer, Alignable - Boston, MA 2013 - 2014

- Implemented user-friendly UI using HTML, CSS, JavaScript and responsive design techniques
- Converted user onboarding flow from a fixed-width to responsive layout, increasing conversions by 15%

Front-End Developer, GrabCAD - Boston, MA 2012 - 2013

- Partnered with designers to translate mockups into pixel-perfect code using HTML, CSS and JavaScript
- Collaborated in Agile development processes, participating in daily stand-up meetings and sprint reviews

Skills

- **Languages:** JavaScript (ES6), TypeScript, Ruby, Go, SQL, HTML, CSS
- **Technologies:** React, Node.js, Express, PostgreSQL, MongoDB, Tailwind CSS, Jest, Bash, HTTP, REST
- **Other:** API design, Git, Github, Figma

Education

Vanderbilt University - Nashville, TN 2010

- Bachelor of Arts in Political Science