Joe Webster, Software Engineer

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

Experience

Software Engineer & Co-Creator, Otto (otto-etl.com) - Remote   May 2020 - Present
- Created an open-source, web-based, and automated ETL workflow tool that's capable of extracting 200K+ PostgreSQL database rows, transforming the data and loading the results into a target database.
- Built a user interface using React, React Flow and Material UI that allows users to create node-based ETL workflows, monitor 2 types of execution logs and observe 7 types of metrics.
- Developed a Node.js/Express backend that defines Otto's orchestration engine, which handles the scheduling, validation, execution, and monitoring of nodes within a workflow.
- Designed a recursive algorithm using JavaScript promises and memoization that enabled the execution of branching workflows and increased a workflow's maximum nodes from 5 to 30+.
- Wrote REST API endpoints that perform CRUD operations on workflow, execution, and metrics resources.
- Developed an execution scheduler using Node-Cron that automatically runs workflows at specific intervals.
- Integrated OAuth 2.0 client credentials flow to facilitate the extraction of data from secured API endpoints.
- Implemented real-time workflow execution log streaming to the UI via server-sent events.
- Containerized application using Docker, achieving an 80% reduction in installation and configuration time.
- Led standups, sprint planning sessions and weekly retrospectives for a four-person remote team.
- Authored a 34 page case study on Otto's problem domain, architecture, challenges, and design decisions.

Front-End Developer, Alignable - Boston, MA   Jul 2013 - May 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%.
- Collaborated with Ruby on Rails back-end developers to ensure integration of front-end components.

Front-End Developer, GrabCAD - Boston, MA   Nov 2012 - Jun 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), Ruby, SQL, HTML, CSS
- **Technologies:** React, Express.js, Tailwind CSS, Jest, PostgreSQL, HTTP, REST
- **Other:** API design, relational databases, unit testing, object oriented programming, Git, Github, Figma

Education

Launch School: Core and Capstone Programs   Dec 2020 - Present
- Multi-year full-stack software engineering curriculum emphasizing mastery of programming fundamentals

Vanderbilt University - Nashville, TN
- Bachelor of Arts in Political Science