

Ed Babcock

Technical Skills

Languages: JavaScript, HTML5, CSS3, ClojureScript, Clojure
Frameworks/Libraries: Polymer, React, Om, Reagent, Closure Tools, core.async, test.check, Ring, Compojure, Schema, Cascalog, Elastich, Manifold
Databases: MySQL, Datalog, IndexedDB
Other: Git, Progressive Web Apps, Responsive Design, Service Workers, Gulp, Bower, ElasticSearch

Open Source

Restaurant Reviewer

- Progressive web app built with Polymer and various Google APIs.
- Used accessibility best practices like WAI-ARIA, color contrasting, landmarks, and focused inputs.
- Built with IndexedDB for saving user reviews and app caching through service workers.
- Contributed an accessibility fix back to the Polymer library

Transit App

- Single page, progressive web app for navigating trains in the Twin Cities area.
- Optimized for offline-first using service workers.
- Worked with Metro Transit's API to fetch and cache route data.

Deepfns

- Library implementing category theory operations in Clojure and ClojureScript.
- Improved upon existing category theory functions by making them more generic.
- Developed a new type of operation for transforming associative data structures.

Browserific

- Worked on a cross-browser framework for mobile apps, desktop apps, and browser extensions split between a Leiningen template, Leiningen plugin, and Clojure software library.
 - Wrote a Clojure backend to generate Plist, JSON, and EDN app configuration files.
 - Used Reagent to build an app configuration menu covering all relevant features for each platform.
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Work Experience

HomeSpotter LLC., Software Developer, Minneapolis, MN (May 2015 - January 2016)

- Improved the management team's business planning by designing and building an analytics dashboard and backend with ClojureScript, Bootstrap, Clojure, and ElasticSearch.
- Drove new sales and improved experiences for thousands of users by writing the chat backend for their mobile app using Clojure, ElasticSearch, data schemas, and RESTful APIs.
- Helped write the landing page for the company website and other site features using HTML, CSS, JavaScript, and PHP.
- Reviewed customer support issues up to 8 times a week, improving customer experiences and relaying any software bugs found to other members of the engineering team.

D.P. Financial Services Inc., Software Consultant, Elk River, MN (October 2013 - November 2013)

- Streamlined the company's database by converting it from multiple formats to one standard layout using Clojure, Cascalog, and Incanter.
 - Improved business records by resolving hundreds of database errors.
 - Prepared tax documents for thousands of their customers through software written in Clojure and AppleScript.
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Education

Udacity – *Senior Web Developer Nanodegree*, 2016 (in progress)
St. Olaf College – *Chemistry, B.A.*, 2011