Harrison R. Brown

Software Engineer

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Skills

Languages: Ruby · JavaScript · Python · **Technologies**: Rails · RSpec · React/Redux · D3.js · Jest · TypeScript · PostgreSQL · MS SQL Server · **Practices**: TDD · Pair programming · **Other**: Graph theory · Algorithms

Experience

AUGUST 2014 - DECEMBER 2016
Tec-Trac, Inc. – *Programmer*

Maintained GPS tracking app for parents of teen drivers · Built admin tools to facilitate customer support interactions · Automated retrieval of missing data from trackers · Created data structures to handle data received out-of-order · Wrote low-level scripts and backend parsing algorithms for a new tracking hardware solution

Projects

Slabb – link – github

Built a feature-rich chat app inspired by Slack using Ruby on Rails and React/Redux for easy code maintainability · Used the Pusher websockets API for live chat functionality

Data Don't Lie – link – github

NBA statistics visualization · Implemented interactive charts via D3.js using a Redux-inspired model/update/view architecture · Implemented storage and retrieval of view data in Firebase so that users can share charts

ZeroOne – github

Wrote an efficient implementation of branch-and-bound search and extensive test coverage for ultra-lightweight JavaScript library for 0-1 integer programming

Education

University of Alabama, Tuscaloosa – *B.S., Mathematics*

Took advanced coursework in topics including: linear and abstract algebra, graph theory and combinatorics, and theoretical CS · Placed in top 40 on prestigious national mathematics exam

App Academy, New York

Completed an intensive (1000+ hours) and selective (< 3% acceptance rate) software development bootcamp