

Full Stack Developer Apprenticeship

Timbersafe

Developers on Team: 2 - 6

Languages Used: Ruby, JavaScript, SQL, HTML, CSS

Description:

A custom offline web application for creating, storing, uploading, reviewing and outputting (PDF) safety audits. This was the primary project that I worked on during my apprenticeship and a significant portion of the work involved extending and re-writing code created by previous developers.

Contribution Highlights:

- multiple prototypes including client-side image validation and resizing, AWS S3 writing/readback, PouchDB data retrieval, Cloudant data retrieval and cleanup, deeply nested JSON file updating, and S3-hosted photo to base64 string conversion
 - admin page controls for adding/deleting entries from deeply nested, highly repetitive JSON file
 - JSON-populated page fields and drop-down selections (JSON selection driven by user record)
 - navigation forward/backward during (offline) audit creation process with data retention and update capabilities
 - data/photo migration from PouchDB to Cloudant to AWS RDS and S3, with validation and cleanup
 - multi-photo selection, preview and upload to S3 with progress bar and messaging
 - progressive filtering of audits with functionality to generate/email PDFs for visible audits
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Hey Thrivy

Developers on Team: 10

Languages Used: Ruby, JavaScript, HTML, CSS, Swift

Description:

A custom web application, iOS app and Android app integrated with Insightly CRM. I was brought in midway through development to assist wherever I was needed to ensure the team met a tight deadline.

Contribution Highlights:

- image validation, preview and submission to client via email on task submission (workaround for broken API)
 - assisted lead developer with extending Ruby gem to enable unsupported API functions
 - Stripe coupon code handling (validation and checkout lightbox customization)
 - custom task creation in Insightly on contact account creation
 - iOS app pairing (rework of Reachability library implementation, Firebase FCM token retrieval)
 - CircleCI config.yml configuration to support Selenium testing via chromedriver and geckodriver
 - Rework of Selenium tests to work for Firefox
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The Locker Room

Developers on Team: 2

Languages Used: JavaScript, Ruby

Description:

A custom storefront web application for a local custom clothing company. I assisted the lead developer with PayPal Express integration.

Contributions:

- updated latest PayPal Express checkout script so that items were listed in checkout lightbox and on resulting PayPal invoice

Fluffy and Fidos

Developers on Team: 6 boot camp students

Languages Used: Ruby

Description: A custom web application for scheduling kennel services. I assisted when working with the SuperSaaS API became a blocker for the students.

Contributions:

- developed methods using rest-client for SuperSaaS User API

City Neon

Developers on Team: 2

Languages Used: JavaScript, HTML, CSS

Description:

A custom website to showcase the client's products and portfolio, based upon designs provided by their in-house graphic designer. I joined this project when I started my apprenticeship, when it was near the end of development. The primary issues involved broken photo carousels, inconsistent page styling and more work required on responsive design.

Contributions:

- prototype and integration of a customized Bootstrap carousel to replace the broken Flickity carousel
 - custom JavaScript to normalize the carousel height regardless of content (various image sizes)
 - updated page styling to be consistent and responsive across all 10 website pages
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Full Stack Developer Boot Camp

Mined Minds Mentoring iOS app

Developers on Team: 4

Languages: Swift, Ruby

Description

An iOS wrapper app for the Mined Minds Mentoring website developed using Xcode 8 and Swift 3, with Google Firebase integration for secure authentication and push notification support. I worked on this project from the initial planning stages with the client up through product demos during graduation.

Features

- support for three login methods (username/password authentication, Facebook login, Google login)
- auto-login via selected login method on app launch
- native slide menu for site navigation
- push notifications

Contributions

- prototype for iOS app web wrapper
 - configuration and management of Google Firebase project
 - prototype for iOS app with functional push notifications via Google Firebase console
 - prototype for iOS app with data transfer to Sinatra with push to AWS RDS DB
 - integration and extension of prototype with login functionality
 - final app development and deployment to iTunes Connect with availability via TestFlight
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Steel City Codefest 2017

Emergency Management Agency of Allegheny County

Developers on Team: 6

Languages: Ruby, SQL

Description:

The primary goal was to develop a web application that provides a more modern approach to creating, retrieving and updating the forms that the EMA uses. I worked on this project from the initial planning stages with the client up through product demos at Steel City Codefest.

Features:

- support for record creation, retrieval and updates
- partial and case-insensitive search of existing records
- support for image uploads and updates, with server-side validation

Contributions:

- schema design and implementation of AWS RDS DB
 - seed data development and methods to populate DB
 - receiving and massaging data from web app and subsequent DB population
 - retrieving data from DB for web app population
 - DB record search and retrieval via web app
 - support for photo upload to web app (local storage), validation and inclusion in records
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