Zach Gavin

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PROJECTS

Quill.org (ES6, React/Redux, Firebase) | home | repos

Open source CMS & learning apps used by 200,000+ students.

- Built UI and layout features for React/Redux web app.
- Improved admin panel with Firebase data-fields for submission sorting functionality.

GoodMOOCs (Rails, React/Flux) | live | github

SPA for discovering and reviewing online courses.

- Rails backend serves a RESTful JSON API to React/Flux frontend.
- Suggests courses with algebraic algorithm based on subject and past review activity.
- Builds indexed search tables for efficient SQL queries.

Swim Coach Buddy (ES6, React/Redux, Ava/TDD) | github

SPA for writing and running swim practices.

- Idiomatic Redux utilizes thunks, normalized state-shape to consume REST APIs.
- Ava test library ensures pure reducers, async actions, and functional React components.

ActiveRecord Lite (Ruby, SQL, RSpec/BDD) | github

Rails

jQuery

An ORM abstracting SQL queries with Ruby.

- Builds Object-Oriented relationship between Ruby classes and SQL database.
- Leverages Ruby metaprogramming to dynamically create methods to edit db models.

SQL

React

HTML/CSS

Flux/Redux

• Optimizes data retrieval with complex SQL joins rather than sequential queries.

SKILLS

Ruby

JavaScript

EDUCATION App Academy - Acceptance rate under 3%

2015

• Intensive web development training program emphasizing pair programming, test-driven development, and best practices in JavaScript and Ruby on Rails.

Swarthmore College - B.A. in Math and Education

2010 - 2014

TDD

Git

- Course Highlights: Linear Algebra, Discrete Mathematics, Statistical Analysis.
- Senior Thesis: Digital Game Learning in Intermediate Mathematics Pedagogy.

WORK

Development Assistant - *Philadelphia Education Fund*

2015

- Updated and maintained hundreds of donors' data in Raiser's Edge.
- Conducted prospective donor research each month.

Ocean Lifeguard - National Park Service

2014 - 2015

- Controlled high stress emergency situations as leader of specialized team.
- Supervised 1000+ visitors per day across one quarter mile of shoreline.
- Trained rigorously for physical operations and vital medical activities.