Renata Cummins

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Independent Projects

Recipe Sharing App   renata-recipe-share.herokuapp.com
Single-page app with React/Redux front end consuming a RESTful Rails API

- Used chained JavaScript promises to handle errors during recipe creation and editing
- Reduced number of roundtrip API calls by customizing JSON response using Jbuilder
- Configured user authentication to ensure that recipes are only edited by their owner
- DRYed up front end code by creating a single React component to display all lists of recipes, passing any necessary buttons into the component as props

Goal Tracker App   renata-goal-tracker.herokuapp.com
Ruby on Rails app built using test-driven development

- Wrote unit and integration tests using RSpec and Capybara, enabling rapid iteration on comments feature
- Used polymorphic associations to reduce the number of database tables needed
- Optimized the number of database calls using a custom SQL query that extracts user info and calculates the total number of goals for each user

Minesweeper Game   renata-minesweeper.herokuapp.com
Clone of the classic PC game built with React and a Rails-backed scoreboard

- Utilized Redux architecture to ensure efficient DOM rendering and predictable state
- Leveraged recursion in a function that explores the neighbors of a tile, continuing to explore until it reaches a bomb-adjacent tile

Skills

Ruby, Ruby on Rails, RSpec, JavaScript, React, Redux, SQL, Git, CSS, HTML

Work experience

Risk Management Solutions   Newark, CA
Senior Modeler (2017 - 2018), Modeler (2014 - 2017), Senior Analyst (2013 - 2014)

- Produced data-driven estimates of building reconstruction costs to calibrate earthquake models used by the insurance industry
- Wrote scripts using HTTP GET and POST requests to scrape building data from real estate websites
- Leveraged the Google Geocoding API to link building data to locations, enabling a detailed view of risk
- Used R and SQL to develop cost models with the flexibility to adapt to changes in the requirements

Education

California Institute of Technology   Pasadena, CA
M.S. in Geobiology, 2013
Awarded a NSF Graduate Research Fellowship
Published research as the first author of a paper in a peer-reviewed journal

Harvard University   Cambridge, MA
B.A. in Earth and Planetary Sciences, cum laude in field, 2011
Courses included COMPSCI 50: Introduction to Computer Science