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 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

Minesweeper Game   renata-minesweeper.herokuapp.com

Clone of the classic PC game built with React and a Rails-backed scoreboard

- Engineered game logic in JavaScript, relying on Object Oriented Programming techniques
- Leveraged recursion in a function that explores the neighbors of a tile, continuing to explore until it reaches a bomb-adjacent tile

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

Skills

JavaScript, React, Redux, Ruby, Ruby on Rails, RSpec, 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
- Used R and SQL to develop cost models with the flexibility to adapt to changes in the requirements
- 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

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, taught in C and PHP