

# Renata Cummins

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## Independent Projects

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### Recipe Sharing App [renata-recipe-share.herokuapp.com](https://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](https://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](https://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

## Skills

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

## Work experience

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### 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

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### 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