

# Rachana Vishwanath - Software Engineer

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Bay Area, CA

[Portfolio](#)

[Linkedin](#)

[GitHub](#)

**Skills** React, Redux, JavaScript, HTML, CSS, SCSS, Ruby, Ruby on Rails, SQL, postgresSQL, AWS, Heroku, Mongoose, MongoDB, Git, RSpec, Test Driven Development (TDD), Object-Oriented Programming (OOP), Express, Node, Webpack

## Projects

**SmartSplit** (Ruby, Ruby on Rails , JavaScript , CSS3 , React , Redux, PostgreSQL) [live site](#) | [github](#)

Smartsplit is a full stack web application built in less than 2 weeks, inspired by Splitwise, and my love for Math

- Handled data validations on the frontend using React component state to ensure the backend APIs only receive viable information, safeguarding against unnecessary calls that would slow down user experience
- Designed algorithm to calculate amount owed for each expense, list expenses shared with any particular individual while mitigating N+1 queries to the SQL database and improving runtime
- Crafted scalable database, dispatched normalized state to frontend to incorporate flexibility for future expansion while achieving intended functionality

**Dessert&Drinks** (MongoDB, Express.js , React / Redux , Node.js, Mongoose, MongoDB Atlas, Axios) [live site](#) | [github](#)

*Desserts&Drinks finds the best donuts and desserts around NYC subway stops*

- Integrated Google Maps API and Yelp API to accomplish search for best desserts or drinks within walkable distance of the user's destination.
- Pinpointed NYC subway stop locations on google map with custom clickable icons that display a modal containing Yelp's top 5 closest dessert or drink listings with the latest review based on the selected theme.
- Implemented logic to fetch search businesses and latest reviews from yelp API by designing custom routes in the backend thereby avoiding calling third-party API from frontend resulting in better security and no CORS errors.

**CheckYourMath** (HTML5, CSS3, JavaScript, Canvas) [live site](#) | [github](#)

*Math inspired tetris-type game to test equation solving skills,*

- Handled logic to increase difficulty with each correct answer, executed collision logic to stop and start fall of numbers, deletion of right number, generated random math equations to keep the player engaged.
- Incorporated event handlers, calculated players viewport, considered various screen sizes to achieve functional, usable, and beautiful product across to enhance user experience
- Achieved dynamic image sourcing using requestAnimationFrame API to showcase animation of falling numbers.

## Experience

**Stay-at-Home Mom & Student** | Oct 2018 - June 2020

- Mastered multi-tasking, frequent focus-switching, task prioritization without compromising productivity.
- Managed home finance, administered monthly budget and invested savings in stock (current profit 30%+).
- Furthered technical skills via App Academy bootcamp and online courses, refined analytical reasoning skills by preparing and appearing for standardized tests

**Associate - Projects** | Cognizant Technology Solutions | March 2016 - March 2017

- Coordinated with test manager, onsite coordinator via agile daily standup to discuss progress, task delegation and blockers if any; explained scope for releases and scheduled project activities, ensuring objectives are met
- Built & used automation test suites to ensure sanity of application preventing leakage of faulty code in every release and increased productivity by 20%
- Reviewed deliverables + documents (test summary report, test scenarios, test case, test data) before submission
- Mentored/Trained new team joiners in technical and domain aspects, resulting in 50% performance boost.

**Programmer Analyst** | Cognizant Technology Solutions | December 2012 - March 2016

- Analyzed business and technical requirements in order to attend/give test plan and test case walkthroughs
- Executed of test cases, captured, reviewed and analyzed test results. Reported, triaged & tracked the defects.
- Automated test cases in Rational Integration Tester after releases, cutting down regression test time by half

## Education

**App Academy** | Spring 2020 | New York, NY

Immersive software development course with focus on full stack web development

**Osmania University** | 2008 - 2012 | Hyderabad, India

Bachelor of Engineering, Mechanical, GPA ~3.8 (with [US equivalent](#) of grade A in advanced Math)