# Rachana Vishwanath

## Software Engineer

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## Skills

React.js, Redux, JavaScript, HTML, CSS3, SCSS, Ruby, Ruby on Rails, jQuery, SQL, postgreSQL, AWS, Heroku, Mongoose, MongoDB, jBuilder, Git, Heroku, RSpec, Test Driven Development (TDD),Object Oriented Programming (OOP), Express, Node.js, Webpack

## Projects

**SmartSplit**                                                                                     live site | github

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

Ruby , Ruby on Rails , JavaScript , CSS , React , Redux, PostgreSQL

- 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**                                                                                  live site |github

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

MongoDB, Express.js , React / Redux , Node.js, Mongoose, MongoDB Atlas, Axios

- 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 a list of Yelp's top 5 closest dessert or drink listings with the latest review dynamically based on the selected theme.
- Implemented logic to fetch search results, business reviews from yelp API by designing custom routes in backend thereby avoided calling third-party API from frontend which resulted in security..

**CheckYourMath**                                                                                  live site |github

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

HTML5, CSS3, JavaScript, Canvas

- 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 JavaScript's 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 the savings in stock with current profit accounting to at least 30%.
- Furthered technical skills via App Academy bootcamp and online courses, refined analytical reasoning skills by preparing and appearing for standardized tests

**Associate - Projects** | March 2016 - March 2017

Cognizant Technology Solutions

- Scheduled agile daily standup to discuss progress, task delegation and blockers if any.
- **Coordinated with the team members, test manager, onsite coordinator scheduled daily status calls.** **explained the scope and business requirement for every release; planned and, scheduled project activities to ensure objectives are met.**
- Built automation test suites, utilized those to ensure sanity of application preventing leakage of faulty code in every release and increased productivity by 20%
- Solid understanding of US healthcare system
- Reviewed all deliverables + documentation/reports (test summary report, test scenarios identification, test case preparation, test data preparation and identification) before release to onsite counterparts/test manager
- Mentored and conducted training for new team joiners in technical and domain aspects which increased their performance by 50%.

Programmer Analyst   |   December 2012 - March 2016
Cognizant Technology Solutions

- Analyzing and understanding of Business and Technical Requirements. responsible for attending/giving test plan and test case walkthroughs
- Execution of Test cases, capturing, reviewing and analyzing test results. Raising the defects in Clear quest, triaging the defects with DEV and tracking for its closure.
- Automated test cases in Rational Integration Tester after every release which cut-down the time for regression testing 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)