

# MD FARSHID ZAMAN

SOFTWARE ENGINEER



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## SKILLS

Ruby

Ruby on Rails

JavaScript

PostgreSQL

jQuery

React

Redux

HTML5

CSS3

SQL

AWS

Git

TDD

Heroku

Sass

## EDUCATION

### App Academy

1000-hour Full Stack software development course with < 3% acceptance rate  
Dec 2016 – Mar 2017

### University of Houston

B.S. Electrical and Electronics Engineering  
Class of 2016

### Engineer in Training(EIT)

Certification by NCEES  
Sept 2016

## PROJECTS

### CAREBNB (An Airbnb inspired single page web app for housing rentals)

[LIVE / GITHUB](#)

Full Stack Software Engineer

ES6, React+Redux, Ruby on Rails, PostgreSQL

- Applied React's virtual-DOM to render database updates by querying RESTful API on Rails backend
- Integrated Google Maps API for geolocation based apartment searching for a pleasant UX
- Applied custom validation to implement the booking and search logic for given parameters
- Designed a fully-responsive, user-friendly front end experience with CSS flexbox and node packages

### RUSH CITY (Single-player platform biking game)

[LIVE / GITHUB](#)

Front End Web Developer

JavaScript, HTML5 Canvas, CSS3

- Implemented abstract jumping physics by calculating HTML5 Canvas frame rates using JavaScript
- Formulated collision detection algorithm for all moving objects by matching its positions
- Implemented render logic to create a 3D visual experience on a 2D canvas element.
- Accomplished global highest score by utilizing the Google Firebase Web API

### DOMinator (jQuery inspired lightweight JS library for fast DOM manipulation)

[LIVE / GITHUB](#)

JavaScript Developer

Vanilla JavaScript

- Abstracted browser DOM API into vanilla JavaScript objects through wrapper design pattern for intuitive traversal and manipulation of the HTML elements
- Constructed a custom AJAX functionality with a built-in Promise object using XMLHttpRequest

## OTHER EXPERIENCE

### OMRON OILFIELD & MARINE

HOUSTON, TX

SOFTWARE ENGINEERING INTERN (SENIOR DESIGN PROJECT)

SEPT 2015 - MAY 2016

- Built prototype of a real-time 3D positional sensor system for an oil company to increase safety of workers around drilling rig equipment by programming microprocessors
- Played the lead programmer role to program a TI micro controller to control Hall sensors, 6 DOF IMU sensors and establish wireless RF communication.
- Won 1st place award for the best senior design project at UH Capstone Design Conference 2016.