

Md Farshid Zaman



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RECENT PROJECTS

CareBNB – Ruby On Rails, ReactJS/Redux [Live](#) · [GitHub](#)

An Airbnb inspired single page web application for housing rentals.

- Implemented user authentication, rental creation, booking and reviews using the MVC pattern and PostgreSQL database on the backend.
- Integrated Google Maps API for geolocation based apartment searching for a pleasant UX.
- Applied a custom model level validation to implement the booking and search logic based on the provided dates and search parameters.

Rush City – JavaScript, HTML5 [Live](#) · [Github](#)

A browser based JavaScript road game built using the HTML5 Canvas element.

- Implemented render logic to create a 3D visual experience on a 2D canvas element.
- Designed algorithm to implement collision criterias depending on obstacle size and speed.
- Devised game logic to track position of the player and the obstacle in relation to each other.

DOMinator – JavaScript [Live](#) · [Github](#)

A jQuery inspired JavaScript library for DOM manipulation.

- Used VanillaJS to emulate basic jQuery DOM manipulation functionality.
- Created methods to make AJAX requests, add event listeners, add or remove classes, and find different nodes on the DOM.

MIPS Instruction Set Processor - Verilog

- Emulated a 5-stage pipelined 32-bit MIPS Instruction Set Processor in HDL, using Verilog and Xilinx ISE Design suite.

EDUCATION & TRAINING

App Academy · Web Development December 2016 - March 2017

- 1000-hour full-stack programming course with <5% acceptance rate

Engineer in Training(EIT) Certification· NCEES September 2016

University of Houston · BSc in Electrical and Electronics Engineering May 2016 · 3.13 GPA

- **Curriculum Highlights:** Computer Architecture, Computing for Engineers, Digital Logic Design, Analog and Digital Electronics, Microprocessors

SKILLS

JavaScript	React.js	jQuery	Redux	SQL
Ruby On Rails	Ruby	HTML	CSS	Git
AWS	Heroku	RSpec	C	MATLAB

TECHNICAL EXPERIENCE

Omron Oilfield and Marine, Capstone Design Project

August 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 microcontroller 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.