Rafael Patel

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Projects

Table | (Rails, React/Flux, Javascript, CSS)   Live • GitHub
A clone of OpenTable's restaurant reservation platform
- Implements custom validation logic to identify time conflicts and prevent double bookings
- Deploys Omniauth, enabling log-in and account creation with Google accounts
- Searches in real-time and displays multiple result types giving a fully customized search bar
- Integrates AWS cloud storage for profile customization with user uploads

Canvas Force 2016 | (Javascript, HTML5 Canvas)   Live • GitHub
Web browser game inspired by Sky Force
- Orients sprites to focus on the player's ship with trigonometry adapted for Canvas
- Enables positionally linked sprites through a Sprite object and overloaded render function
- Animates sprites by shifting the index of the image frame as a function of time

Ruby ORM | (Ruby, SQL)   GitHub
Basic implementation of Rail's Active Record ORM framework
- Inflects user input to create sensible SQL requests ranging from the model to association level

Skills

Ruby	Javascript	jQuery	HTML	git	RSpec
Ruby on Rails	React.js	Flux	SQL	CSS	

Experience

Engineering Capstone Project   2013 - 2014
Student   Granby, CT
- Designed and executed a successful failure analysis study of the client's electrical cable jacket

Center for Clean Energy Engineering   2012 - 2013
Undergraduate Research Assistant   Storrs, CT
- Created a MATLAB program to streamline data input in the lab's solar cell test setup

Volunteer

CoderDojo NYC - Teaching kids to code with Scratch, Codesters (Python), and HTML/CSS
Digital Girl Inc - Empowering inner city youth by introducing them to code with Code.org

Education

App Academy   December 2015 - March 2016
Full Stack Web Development Course   New York City
- Rigorous 1000-hr web development course with less than 5% acceptance rate
- Covered topics such as: Ruby, JS, TDD, algorithms, OOP, REST, and data structures

University of Connecticut   2014
B.S. in Materials Science and Engineering, In-major GPA: 3.5   Storrs, CT
- Founded the UConn 3D Printing Club, reached hundreds of kids through STEM outreach