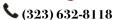
Khaaliq DeJan









Projects

Flux Piano Live | GitHub

Flux Piano is a simple piano application using ReactJS and the Flux application architecture

 Demonstrates Flux's unidirectional data flow by propagating actions through a central dispatcher to the Piano KeyStore

Twitter Sentiment App

Categorize any tweet as "negative," positive," or neutral". A Backbone consuming, RESTful JSON Rails app integrated with Twitter's Search API.

- Implements parallelism to do all tweet sentiment API requests at once using Typhoeus
- Uses Datumbox's Machine Learning framework to classify the sentiment of each tweet after literature review
- Published a Ruby gem to integrate Datumbox's Twitter Sentiment Analysis API with Rails

Mosabrunch.com <u>Live</u> | <u>GitHub</u>

Find the highest rated restaurants in SF with bottomless mimosa brunch. A Backbone consuming, RESTful JSON Rails appintegrated with Google Maps and Yelp API.

- Custom jQuery plugins and Backbone.js MV* front-end structure
- Uses custom script to seed Postgres SQL database with restaurant object data through Yelp's API
- Custom authentication using BCrypt to store secret hash and override User#password=method
- Dynamic location-based search with Google Maps API in SF

Snake.js <u>Live | GitHub</u>

Classic game rebuilt for the browser in JavaScript

Skills

Ruby, Ruby on Rails, JavaScript, jQuery, AJAX, Backbone.js, React.js, PostgreSQL, HTML5/CSS3, Bootstrap, git, Unix, Node.js, Java, Test-driven development

Experience

NASA Ames Research Center | Biomedical Engineer

Moffett Field, CA | Dec 2013 - Dec 2014

- Completed official recommendations on the NASA "health tracker" for tracking astronaut's vital signs that resulted in device purchases for NASA's rigorous Quality and Assurance Test Protocol.
- Managed the development of the quality and acceptance test plans for the new crewmember ECG hardware, software, harness and electrodes.
- Independently developed a UML model to document the pathways of all electronic medical data aboard the International Space Station.

Santa Clara University | Molecular Biologist

Santa Clara, CA | Jun 2012 - Apr 2014

- Taught myself Perl to write simple scripts to perform string manipulation on Next-Gen sequence data.
- Analyzed output from Bayesian evolutionary analysis software to phylogenetically classify the genus *Erysimum*, including the endangered Santa Cruz Wallflower (*E. teretifolium*).

Education

App Academy

San Francisco, CA | Dec 2014 - Mar 2015

Full-stack web development course • acceptance rate < 5%

Santa Clara University

Bachelor of Science • Biomedical Engineering • 2011



