

Khaaliq DeJan

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Projects

Flux Piano

[Live](#) | [GitHub](#)

Flux Piano is a simple piano application using ReactJS and Facebook's Flux architectural design

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

Rate-A-Tweet

[Live](#) | [GitHub](#)

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

- Implements parallelism to process multiple sentiment requests at once
- Uses Datumbox's Machine Learning framework to classify the sentiment of each tweet
- Published a Ruby gem to integrate Datumbox's Twitter Sentiment API with Rails

Mosabrunch.com

[Live](#) | [GitHub](#)

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

- Custom jQuery plugins and Backbone.js MV* front-end structure
- Uses custom script to seed PostgreSQL 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 for restaurants in SF

Snake.js

[Live](#) | [GitHub](#)

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

Work 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*).

Volunteer Experience

Black Girl CODE | Technical Mentor (part-time)

Oakland, CA | April 2015 – Present

- Volunteer on an on-going basis to mentor young women (ages 11-18) on web development and coding.

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