


# Khaaliq DeJan

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 [khaaliqdejan.me](http://khaaliqdejan.me)

# [KD]

## Projects

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### 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

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

*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 Typhocus
- Uses Datumbbox's Machine Learning framework to classify the sentiment of each tweet after literature review
- Published a Ruby gem to integrate Datumbbox's Twitter Sentiment Analysis 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 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

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

*Classic game rebuilt for the browser in JavaScript*

## Skills

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

## Experience

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### 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

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### 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