

# Kasper Kuo

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## Projects

### DREAM (RAILS, REACT/FLUX, POSTGRESQL)

[LIVE](#) | [GITHUB](#)

*An app that allows users to showcase artwork with the rest of the world*

- Organizes images by type via custom filtering on front end by the Flux image store
- Optimizes site performance by caching different sized images in a cloud storage
- Implements user authentication system that hashes and salts passwords with BCrypt

### KOALA JUMP (JAVASCRIPT, HTML5 CANVAS)

[LIVE](#) | [GITHUB](#)

*A platform survival game*

- Emulates collision detection and gravity with hand-built physics engine
- Implements infinite game scrolling by manipulating dynamic array of game platforms
- Uses object-oriented design best practices to detail the relationship between the koala and platforms

### ACTIVE RECORD LITE (RUBY, SQL)

[GITHUB](#)

*A custom object-relational mapping (ORM) tool to query databases*

- Utilizes Ruby metaprogramming to construct dynamic methods and table associations
- Wraps SQL objects in Ruby to allow for object-oriented programming

## Skills

Ruby, Ruby on Rails, JavaScript, jQuery, React.js, Flux, SQL, Git, HTML, CSS

## Education

### APP ACADEMY

SAN FRANCISCO, CA - 2016

*Full stack web development course with <5% acceptance rate*

- Topics include: Rails, SQL, React, TDD, scalability, algorithms, OOP, and programming best practices

### UNIVERSITY OF CALIFORNIA, BERKELEY

BERKELEY, CA - 2010 - 2014

*Bachelors of Science – Bioengineering*

*Capstone Design Project*

- Designed and manufactured a gas flow monitor with a team used by health researchers in Guatemala
- Produced a graphical user interface (GUI) to interpret gas flow data with MATLAB
- Worked in close liaison with Dr. Lisa Thompson, associate professor at UCSF and co-PI of GenteGas

## Work History

### TEACHER, THINKTANK LEARNING

MILLBRAE, CA – 2015 - 2016

- Led classes in subjects including math and biology and developed curriculum and assignments
- Helped students improve their course grades by at least 2 letter grades

**GITHUB:** [github.com/kasperkuo](https://github.com/kasperkuo) **LINKEDIN:** [www.linkedin.com/in/kasper-kuo-7098a169](https://www.linkedin.com/in/kasper-kuo-7098a169)