

# Ryan Couto

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## EXPERIENCE

### **Software Developer** - *Sweeten (2015 - )* - New York, NY

- Used MySQL, Ruby on Rails, JavaScript, AJAX, React.js, jQuery, HTML, CSS, AWS, Appcelerator Titanium, Engine Yard, Bugsnag
- Created mobile application using Appcelerator's Titanium Mobile SDK
- Reconfigured content-based matching algorithm for greater accuracy
- Worked with Cornell statistics PhD candidates to improve matching algorithm utilizing:
  - ◆ Logistic regression analysis
  - ◆ Latent Dirichlet Allocation modeling
  - ◆ Bayesian inference
- Authored script to scrape contractors' project information from DOB database
- Implemented IP geolocation to serve city-specific curated content

### **Software QA Analyst** - *Lawrence Berkeley Laboratory (2012 - 2013)* - Berkeley, CA

- Worked with developers to test web-based applications and stored procedures
- Maintained a database of radioactive containers owned by the Dept. of Energy

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## SKILLS

Ruby (Rails, HAML), JavaScript (jQuery, AJAX, Backbone.js, React.js, Appcelerator Titanium), HTML, CSS (Sass), Testing (RSpec, Capybara, Selenium), Heroku, Git, Python, SQL (PostgreSQL, MySQL, SQLite), AWS, R, STATA, MATLAB

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## EDUCATION

### **UC Berkeley** - *Bachelor's in Applied Mathematics: Statistics (2010 - 2014)* - Berkeley, CA

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## PROJECTS

### **SweetenApp** (*Appcelerator Titanium, JavaScript*)

*Mobile application for Sweeten experts*

- Created JSON API endpoints in Sweeten's web application
- Learned Appcelerator's Titanium Mobile framework while developing application

### **ShopUP** (*Ruby on Rails, Backbone.js*) | [live](#) | [github](#)

*Airbnb inspired app for commercial pop-up store rentals*

- Backbone.js front-end consumes RESTful API served by Rails back-end
- OmniAuth allows login through Google
- Geocoding allows searches within user-defined radius
- User authentication utilizes BCrypt to store secret password hash

### **Snakes on a Euclidean Plane** (*JavaScript, HTML5*) | [live](#) | [github](#)

*Mathematically themed Snake game in the browser*

- jQuery handles events
- Custom CSS

### **Chess** (*Ruby*) [github](#)

*Command line chess game*

- Game pieces inherit move functionality from parent classes to DRY up code
- Uses custom deep duplication method on board to validate moves