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Ryan Couto

PORTFOLIO · **GITHUB** · **LINKEDIN**

EXPERIENCE

Software Developer - *Sweeten (2015 -)* - New York, NY
- ➔ Developed matching algorithm utilizing content-based and collaborative filtering
- ➔ Worked with Cornell statistics PhD candidates to improve matching algorithm utilizing advanced statistical methods and analysis
- ➔ Created mobile application using Appcelerator's Titanium Mobile framework
- ➔ 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, React.js, Backbone.js, Appcelerator Titanium), HTML, CSS (Sass), Testing (RSpec, Capybara, Selenium), Heroku, Git, SQL (PostgreSQL, PostGIS, CartoDB, MySQL, SQLite), AWS

EDUCATION

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

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