

# DARREN TAN

## SOFTWARE ENGINEER

### RECENT PROJECTS

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#### TournaGen - Full Stack Engineer

[www.tournagen.xyz/](http://www.tournagen.xyz/)

Web application for users to manage their own tournaments

- Dynamically creates properly-sized brackets using a jQuery plugin
- Generates matchups with a branching algorithm in the Rails model
- Integrates type-ahead searching by passing search params through fetch, allowing the Rails controller to return the proper collection
- Extends Backbone View properties to prevent zombie view creation

#### 2048: RGB Edition - Front End Engineer

[www.darrentan.xyz/2048-RGB-Edition/](http://www.darrentan.xyz/2048-RGB-Edition/)

An object-oriented rendition of the game 2048

- Assigns JavaScript tile objects to appropriate DOM elements, thereby accurately representing the current board state
- Locates tiles with jQuery selectors and removes/applies proper classes, creating smooth CSS transitions
- Employs JavaScript interface logic for improved user experience

#### ActiveAssociations - Back End Engineer

[github.com/darrengtan/ActiveRecordLite](https://github.com/darrengtan/ActiveRecordLite)

An ORM inspired by the functionality of ActiveRecord

- Interacts with DB to perform CRUD operations using SQL objects
- Applies Ruby heredocs to mix SQL code into the SQLObject class
- Creates belongs\_to and has\_many associations using SQL queries

### EMPLOYMENT

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#### Impax Laboratories

Hayward, CA

R&D and Product Development Summer Intern · 2011 to 2012

- Accelerated time frame of 2 generic drug projects by 10 weeks
- Counseled supervisors with changes in formulation methods necessary to improve manufacturability and dissolution profiles

#### Stanford Blood Center

Palo Alto, CA

Cellular Immunity Laboratory Intern · 2013 to 2013

- Researched regulatory T cells and DCs along with methods to prevent suppression of the immune system
- Identified relevant cell populations using flow cytometry, Western Blotting, fluorescence, and cell cultures

### CONTACT

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✉ [darrengtan@gmail.com](mailto:darrengtan@gmail.com)

🌐 [www.darrentan.xyz](http://www.darrentan.xyz)

☎ 510-504-8955

📍 San Francisco, CA

in [darrengtan](#) [darrengtan](#)

### SKILLS

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Ruby  
JavaScript  
Ruby on Rails  
Backbone.js  
RSpec  
jQuery  
Github  
AJAX  
HTML5  
CSS  
Heroku  
Canvas  
PostgresQL  
SQLite  
Bootstrap  
Ubuntu Linux  
Mac OSX

### EDUCATION

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#### UC San Diego

B.S. Bioengineering 2014

3.65 GPA

### PERSONAL

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VA Innovation  
Creation Series 2015

Placed 5th out of 48 applicants in challenge to design a device that will reduce tremors in patients