

# Darren Tan

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## PROJECTS

### **TournaGen** (Rails, Backbone) | [live](#) | [github](#)

*Full Stack Application that generates tournament brackets with updating features*

- ❖ Dynamically creates properly-sized brackets using a jQuery plugin and calculates the starting matchups through a branching algorithm
- ❖ Integrates type-ahead searching by passing search params through fetch, allowing the Rails controller to return the proper collection

### **2048: RGB Edition** (JavaScript, jQuery) | [live](#) | [github](#)

*Browser game*

- ❖ Traverses the board in the opposite direction of the selected movement and recursively looks for another tile to merge with or an obstacle to stop
- ❖ Locates tiles with jQuery selectors and removes/applies proper classes, creating smooth visual transitions

### **ActiveRecord Lite** (Ruby) | [github](#)

*An ODM inspired by the functionality of ActiveRecord*

- ❖ Interacts with the database to perform CRUD operations using SQL objects
- ❖ Creates belongs\_to, has\_many, and has\_one\_through associations using SQL database queries

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## SKILLS

**Languages:** Javascript, CSS, HTML, Ruby

**Frameworks :** Ruby on Rails, Bootstrap, Backbone.js, Rspec, AJAX, JQuery

**Databases & Platforms:** PostgreSQL, SQLite, Github, Heroku

**Operating Systems:** Ubuntu Linux, Mac OSX

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## EDUCATION

### **Web Development - App Academy** (June 2015 - Sept 2015)

*12-week immersive, full-time web-development program*

- ❖ Emphasis on building full-stack web applications using Ruby on Rails, Javascript, and Backbone through proper coding styles and best practices
- ❖ Extremely selective program, less than 5% acceptance rate

### **B.S. Bioengineering**

*UC San Diego (2010 - 2014), GPA 3.65*

- ❖ Coursework in Numerical Analysis, Linear Algebra
- ❖ Created a novel rehabilitation device for patients with shoulder injuries, analyzing the lateral displacement of the arm during exercise using motion capture and GraphPad Prism 4 for statistical analysis

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## EXPERIENCE

### **R&D and Product Development Summer Intern - Hayward, CA** (2011 - 2012)

- ❖ Accelerated timeframe for 2 generic drug projects by 10 weeks
- ❖ Counseled supervisors with changes necessary to improve manufacturability while maintaining similar dissolution profiles