

# JARED TAN

SF | Software Engineer | 949-275-7566 | [jared.e.tan@gmail.com](mailto:jared.e.tan@gmail.com)

 JaredTan |  jared-e-tan |  [www.jaredtan.tech](http://www.jaredtan.tech)

## Skills

**Software / Technologies:** JavaScript, Ruby, Ruby on Rails, React.js, React Native, Redux, SQL (PostgreSQL), Node.js, MongoDB, Express.js, jQuery, HTML5, CSS3, Git, CLI

## Projects

### Woven

*React Native iOS | Redux | MongoDB | Express.js | Node.js*

iOS mobile app allowing two users to share a private digital space with instant messaging, activity planning, interactive games, and more. (Aug 2017 - Present)

[woven-app.com](http://woven-app.com) | [github.com/JaredTan/Woven](https://github.com/JaredTan/Woven)

- Orchestrated the application's development architecture as lead developer among 5 engineers.
- Drove decision to use declarative React Native components and Redux for building front-end interfaces.
- Established instant messaging with bi-directional data flow using web sockets and Node.js non-blocking I/O.

### Pinned

*Ruby on Rails | React | Redux | PostgreSQL*

Web app inspired by Pinterest allowing users to explore and share creative ideas with the world via pins and boards. (June 2017 - Present)

[pinned.life](http://pinned.life) | [github.com/JaredTan/Pinned](https://github.com/JaredTan/Pinned)

- Designed search engine using PostgreSearch displaying pins, boards, and users based on user input.
- Implemented Masonry layout grids to optimize boards and pins based on available browser space for an elegant UI.
- Integrated cloud-based image hosting using Cloudinary API for user image uploading and storage.

### Colored Diffusion

*JavaScript*

2D visualization of colored droplet molecules in water. (July 2017)

[coloreddiffusion.com](http://coloreddiffusion.com) | [github.com/JaredTan/ColoredDiffusion](https://github.com/JaredTan/ColoredDiffusion)

- Applied color blending of molecules using vanilla JavaScript resulting in an eye-catching molecular simulation.
- Emulated particle physics and momentum conservation for an educational display of entropy in nature.

## Work Experience

### DUPONT | PALO ALTO, CA | 2015-2016

### FORMULATIONS INTERN / RESEARCH ASSISTANT

- Valorized and filed patent for a Tide detergent enzyme recipe leading to a ~40% raw cost reduction.
- Designed and manipulated automated assays in Excel to test and analyze enzymatic activity.
- Self-initiated a collaborative project with another team resulting in a symbiosis of technologies.

### JOINT BIOENERGY INSTITUTE | EMERYVILLE, CA | 2013-2015

### UNDERGRADUATE RESEARCH ASSISTANT

- Co-authored publication for recycling in ethanol biofuel production in BioEnergy Research.
- Designed a technique for biomass pretreatment resulting in a ~99% sugar yield from raw biomass for biofuels.

### UC BERKELEY COLLEGE OF CHEMISTRY INSTRUCTIONAL SUPPORT FACILITY | 2013-2014

- Supervised and instructed 45+ sections of 25 students for Chemistry 1AL and Chemistry 1B.

## Education

University of California, Berkeley - B.S. Chemical Biology, Bioengineering Minor | 2012 - 2016