

## Portfolio

### Entente.io | [Live](#) | [Github](#)

*Discover a new community and explore upcoming hosted events.*

- ❑ A React/Flux frontend consumes a REST API implemented with Ruby on Rails and PostgreSQL.
- ❑ RSpec and Capybara tests assert MVC and authentication functionality.
- ❑ Query optimization improves web performance and reduces load on database.
- ❑ Responsive UI design using Bootstrap and CSS3 media queries.

### ChitChat | [Live](#) | [Github](#)

*Chat application using sockets for real-time messaging.*

- ❑ Built on Node.js, Socket.IO, and jQuery.
- ❑ Automatically logs user activity.

### SkiFree | [Live](#) | [Github](#)

*Classic 1991 Microsoft game in object-oriented Javascript and rendered on HTML5 Canvas.*

- ❑ Original design of game physics for skier's movements in relation to ski slope.
- ❑ Keydown event listener handles multiple player velocities with natural sprite changes.

### Instapixies | [Live](#) | [Github](#)

*Search Instagram's media by hashtag and date.*

- ❑ Single page web application built on Ruby on Rails, PostgreSQL, React, HTML/CSS, and Instagram API.
- ❑ Pagination to search older photos and videos falling within the user's initial query.

### AnORM | [Github](#)

*An Object Relational Mapper inspired by Active Record.*

- ❑ Written in Ruby and SQL, and implements AR association methods: *has\_many*, *belongs\_to*, *has\_one\_through*.

## Skills & Expertise

Ruby, Ruby on Rails, PostgreSQL, SQL, ReactJS, JavaScript, jQuery, HTML5, CSS3, Git, RSpec, Java

## Education

**App Academy, Intensive Full Stack Web Development Program, < 5% acceptance rate**

**San Francisco, CA, October 2015 to January 2016**

*Topics include:* pair programming, TDD, algorithms, data structures, OOP, coding style (DRY), security, REST

**University of California, Santa Cruz, Bachelor of Science, Neuroscience**

**Santa Cruz, CA, October 2009 to June 2014**

*Curriculum Highlights:* Computer Science Dept.: Accelerated Java Programming, Data Structures in Java, C, C++

Mathematics Dept.: Multivariable Calculus, Probability, Statistics

Biomolecular Engineering Dept.: Python for Bioinformatics, Computational Research Tools

## Work Experience

**Research Scholar for the SENS Research Foundation and CASMI**

**University of Oxford, United Kingdom, June 2014 to August 2014**

*Presented at Rejuvenation Biotechnology Conference, Santa Clara, CA 2014*

- ❑ Led and designed a systematic review of cell-based immunotherapies.

**Undergraduate Researcher in The Hinck Lab, Department of Molecular, Cell and Developmental Biology**

**University of California, Santa Cruz, CA, February 2013 to June 2014**

*Awarded Undergraduate Research in the Sciences at UCSC in 2014*

- ❑ Independently researched cell senescence in mammary cell lines.

## Awards/Publications

- ❑ **Undergraduate Research in the Sciences Award.** A grant to continue an independent research project in cell senescence of cancerous mammary cell-lines.
- ❑ **SLIT/ROBO2 signaling promotes mammary stem cell senescence by inhibiting Wnt signaling.** Hinck et al. (2014) Stem Cell Reports 3(3): 385-393.