

## Portfolio

**Personal site | Front End Engineer | Live:** sherizada.com | **Code:** github.com/sherzader/sherzader.github.io

- Written in React, HTML, CSS3.
- CSS3 animations for rendering React components.

**Entente.io | Full Stack Engineer | Live:** entente.io | **Code:** github.com/sherzader/entente

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

- Built on a RESTful API using Ruby on Rails, PostgreSQL, React/Flux, jQuery, and HTML/CSS.
- BCrypt User Authentication to salt and hash passwords for secure database storage.
- Query optimization improves web performance and reduces load on database.
- Responsive UI design using CSS3 media queries.

**SkiFree | Front End Engineer | Live:** sherizada.com/ski-free | **Code:** github.com/sherzader/ski-free

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

- Original design of game physics built on JavaScript's asynchronicity.
- Keydown event listeners handles multiple player velocities with natural sprite changes.

**Instapixies | Full Stack Engineer | Live:** instapixies.herokuapp.com | **Code:** github.com/sherzader/instapixies

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

- Single page web application built on Ruby on Rails, React, jQuery, and HTML/CSS.
- Server-side makes all Instagram API calls to fetch recent media via HTTParty gem.
- Pagination to search older photos and videos falling within the user's initial query.

**AnORM | Back End Engineer | Code:** github.com/sherzader/AnORM

*An Object Relational Mapper inspired by Active Record.*

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

## Skills & Expertise

Ruby, Git, Ruby on Rails, PostgreSQL, SQL, ReactJS, JavaScript, jQuery, HTML, CSS, RSpec, Data Structures, Java

## Education

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

**San Francisco, CA, 2015-10 to 2016-01**

Topics include: algorithms, data structures, coding style, security, REST, OOP, TDD

**University of California, Santa Cruz, Bachelor of Science, Neuroscience, Class of 2014**

*Curriculum Highlights:* Data Structures in Java, C, C++, Accelerated Java Programming, Python for Bioinformatics, Software Design, Probability, Statistics, Multivariable Calculus

## Work Experience

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

**University of Oxford, United Kingdom, 2014-06 to 2014-08**

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

- Analyzed genetically modified bone tissues to discover a novel biomarker for osteoarthritis.
- Led and designed a systematic review of cell-based immunotherapies.

**Undergraduate Researcher in The Hinck Lab**

**University of California, Santa Cruz, CA, 2013-02 to 2014-06**

*Department of Molecular, Cell and Developmental Biology*

- Independently researched cell senescence in mammary cell lines.
- Analyzed over a thousand tissue slides using fluorescence microscopy.

## 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.