

Smith Freeman

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Projects

Locus

[Live](#) | [GitHub](#)

Aesthetic-conscious media-sharing platform for artists to post original works, built with Ruby on Rails and Backbone.js

- Twitter-inspired follow functionality with robust profile feature and media upload (image, audio, and video) to Filepicker
- Dynamic tagging system enables search functionality and user-driven discipline and media categorization
- Extends Backbone.js View class to construct [CompositeView](#) class that recursively handles adding and removing subviews
- Authorization security overrides `User#password=` to store BCrypt password

Asteroids

[Live](#) | [GitHub](#)

Browser implementation of the classic 1970's arcade game, built with JavaScript

- Includes [inherits](#) method to establish inheritance between classes
- Leverages HTML5 Canvas for a friendly user-interface
- Implements vector-addition and trigonometric calculations for intuitive object-movement

MildlyRails

[GitHub](#)

Reproduction of Ruby on Rails' basic functionality, built with Ruby

- Implements Ruby's meta-function [define_method](#) to elegantly generate necessary methods
- Uses JSON serialization and parsing of data to implement cookie functionality

Skills

Ruby Java Scala
Ruby-on-Rails Backbone.js Javascript jQuery
RSpec SQL Haskell Standard ML git
HTML CSS R LaTeX

Experience

Galbraith Lab, OHSU

May 2014 - September 2014

Research Assistant

Portland, OR

- Developed lab-specific method to produce fluorescent 3D collagen matrix for high-resolution microscopy
- Performed statistical analysis (R, imageJ) to discover protein morphology heterogeneities
- Used bioinformatic tools to develop novel and viable genetic clones

Shampay Lab, Reed College

2013 - 2014

Undergraduate Research Fellow

Portland, OR

Thesis: Interaction of Shelterin Proteins PinX1 and TPP1 in *Xenopus laevis*

Education

App Academy

2014

Full Stack Web Development

San Francisco, CA

Reed College

2010 - 2014

Bachelor of Arts in Biology, GPA 3.07

Portland, OR

Academic Commendation, Undergraduate Research Grant



github.com/smithfrmn



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