

# Sarah Confrancisco

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[GitHub](#) • [LinkedIn](#) • [Angellist](#) • <https://sarahconfrancisco.github.io/>

## SKILLS

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Ruby; Rails; JavaScript; ReactJS; Flux (Redux); SQL; jQuery; RSpec; Python; HTML5; CSS3;  
Git;  $\text{\LaTeX}$ ; Mathematica; MATLAB

## PROJECTS

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### Welp [Live](#) [GitHub](#)

*Web application inspired by Yelp built with Rails, ReactJS, Redux, PostgreSQL, CSS3*

Created a custom ActiveRecord query to allow users to enter one location that searches multiple fields and prevents  $N + 1$  queries for a better user experience

Leveraged AWS to store images remotely allowing for scalability

Displays restaurant search results on a map and a restaurant's location on its details' page with Google Maps API

### Sort Visualizations [Live](#) [GitHub](#)

*Visualizations of bubble, merge, and quick sort using Javascript, Easel, HTML5/CSS3.*

Implemented sorts in place to make it easier for viewers to follow

Leveraged TweenJS to keep sorts on different canvases in sync

### Dynamic Ruby Archive [GitHub](#)

*Object relational mapping library for Ruby. Built in Ruby and SQL*

Provides library users with intuitive defaults allowing for DRY code

Leveraged Ruby metaprogramming to dynamically set associations between model instances

### Capstone Project

*Built Spring 2016 using Python*

Designed an algorithm to find the optimal packing of  $n$  disks in a unit square

### Harmonograph

*Built Summer 2015 in Visual Studio C#*

Built the two pendulum apparatus

Modelled its output curve in an interactive app where users specify frictions and frequencies

## EDUCATION

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Dec 2016 - **App Academy** New York, NY

March 2017 **Software Engineering**

1000 hour full-stack software development course; 3% acceptance rate

Sept 2012 - **Salisbury University** Salisbury, MD

May 2016 Bachelors of Science in **Microelectronic Physics**

Minor in **Mathematics**

**3.6 GPA**; Scientific Programming (Python); Computer Architecture; Analog Electronics; Digital Electronics; Differential Equations II; Calculus III; Linear Algebra; Mathematical Physics; Electrical Circuits; Semiconductors; Quantum Mechanics

## WORK HISTORY

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2014-2016 **LPL Financial**

Enter data including client contact information and IRS compliance records into the in-house client management system

2013-2016 **Grading Assistant**

Grade 200+ Physics I homework assignments a week accurately and in a timely manner

References available on request