

Sarah Confrancisco

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SKILLS

Ruby; Rails; JavaScript; ReactJS; Flux (Redux); SQL; jQuery; RSpec; Python; C++; HTML5; CSS3;
Git; \LaTeX ; Mathematica; MATLAB

PROJECTS

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

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

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