Sarah Confrancisco

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Links: GitHub; LinkedIn; AngelList; https://sarahconfrancisco.github.io/

Skills

Ruby; Rails; Python; C++; C#; RSpec; JavaScript; jQuery; SQL; HTML5; CSS3; React; Flux (Redux)
Git; LaTeX; Mathematica; Matlab

Projects

Welp Live GitHub

Single page web application inspired by Yelp created in 9 days
using Rails, JavaScript, CSS, React, Redux, PostgreSQL

Created a custom SQL query to allow users to enter one location that searches multiple fields
Employed Google maps API to show a restaurant's location on its Restaurant page
with a static image and to render all Restaurants searched for on a Google Map with markers
Utilized a RESTful routing backend with Rails controllers and JSON views
Used a React.js frontend with a Redux controlled state so all components are in sync

Sort Visualizations Demo GitHub

Visualizations of bubble, merge, and quick sort using Javascript, Easel, HTML5, and SCSS.

Compare the time complexity of different sorts based on different inputs
Show the logic of sorting algorithms

Dynamic Ruby Archive GitHub

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

Connects ruby classes to relational sqlite3 database tables
Establishes a persistence layer for applications with minimal configuration

Capstone Project

Built Spring 2016 using Python

Designed an algorithm to find the optimal packing of n disks in
a one by one square

Harmonograph

Built Summer 2015

Designed and built a two pendulum apparatus.
Modeled the drawing output of the apparatus using Visual Studios C#

Education

Dec 2016 - March 2017	**App Academy** New York, NY **Software Engineering** 1000 hour full-stack software development course; 3% acceptance rate
Sept 2012 - May 2016	**Salisbury University** Salisbury, MD Bachelors of Science in **Microelectronic Physics** Minor in **Mathematics**
Curriculum Highlights	**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