LUKE ESPINA

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EDUCATION

App Academy, New York City

- 1000-hour software development course with < 3% acceptance rate
- Teaches full-stack web development: Rails, JS, React, SQL, TDD, algorithms, design patterns, and best practices

Macaulay Honors College at City College of New York, CUNY June 2016
B.S. in Physics with Research Honors, *magna cum laude*
GPA: 3.5

- Introduction to Programming, Data Structures, Discrete Mathematics, Multivariable Calculus, Linear Algebra, Differential Equations, Statistical Mechanics, Quantum Physics

SKILLS

Python, Ruby on Rails, RSpec, JavaScript, jQuery, React, Redux, SQL, Git, HTML5, CSS3, AWS

PROJECTS

BassCase – React.js | Redux.js | Ruby on Rails | AWS live: bass-case.herokuapp.com
Social music app inspired by SoundCloud github.com/lespina/bass-case

- Utilizes responsive design, animated modals, collapsible widgets and menus, hover-over previews, and intuitive playback queue control for seamless user experience
- Implements a dynamic list-based upload form for convenient multi-upload functionality
- Features a collapsible, scrollable, drag-and-drop-sortable playback queue
- Leverages Amazon S3 storage and Paperclip library for scalable file uploads

Project 2

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Project 3

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- lorem ipsum

EXPERIENCE

NASA Armstrong Flight Research Center, California June 2015 – Aug. 2015
NASA Student Airborne Research Program

- Applied ENVI/IDL geospatial software to map oil proliferation and kelp population dynamics through ~100 gigabytes of remote-sensing satellite image data
- Computed relative kelp biomass, chlorophyll a concentration, and colored dissolved organic matter levels across ~100mi and 14 days of images to evaluate environmental fallout following the 2015 Refugio Beach Oil Spill
- Distilled results into 3' x 4' poster summary and presented at large research conference

Experimental Fluid Mechanics and Aerodynamics Lab, New York June 2014 – June 2016
Research Assistant

- Applied MATLAB and instrumentation skills to capture and study airflow
- Improved the performance of wind energy harvesters by 15% through experimentation
- Completed research thesis on vortex formation behind cylinders located in a flow field