

Elvis Hernandez

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Github: <https://github.com/ElvisHernandez>

Skills Summary

Windows | Linux | Microsoft Office Suite | Javascript | HTML | CSS | Ruby | Ruby on Rails | React | Node | Express | Git | Github | Bash Terminal | PostgreSQL | Bootstrap | Python | Agile Methodology | Test Driven Development | Heroku

Projects

SoftSearch

Github Repository: <https://github.com/ElvisHernandez/SoftSearch>

Heroku Application Link: <https://soft-search.herokuapp.com/>

SoftSearch is a career search web application specifically created for Software Development.

- Implemented Mapbox GL JS API along with React and Bootstrap to build a dynamic and responsive user interface which geographically displays hundreds of software jobs posted by employer user types. Allowed applicant user types to filter posted jobs by skill through the creation of GeoJSON Mapbox layers.
- Designed Entity Relationship Diagram which was used as a point of reference during Test Driven Development to test the various associations between our models with rspec. Relevant user data was stored in a PostgreSQL database.
- Developed several REST APIs to facilitate efficient communication between the front and back end.
- User authentication and authorization were used to secure private user data through the Devise gem and scoping/namespaces.

AirAware

Github Repository: <https://github.com/ElvisHernandez/AirAware>

Heroku Application Link: <https://air-aware.herokuapp.com/>

A web app that displays air pollution stats by city and presents possible solutions based on the level of severity.

- Designed an Express backend to setup three RESTful API endpoints that are called on the frontend to request city arrays, city pollution stats, and a city picture.
- Managed state on the frontend with hooks and the Context API to provide sibling components with access to mutually shared states.
- Routed users to different pages with React Router API.
- Styled project with Material UI/CSS and Flexbox
- Collaborated with the team through Git/Github and managed progress with Trello.

Education

Wyncode Academy Full-Stack Web Development Course

January – March 2020 | Full-stack software developer course that teaches...

- The fundamentals of general and web programming through Javascript and Ruby.
- Front-end user interface design and state management with React, HTML, CSS.
- Back end programming with Node, Express, Ruby on Rails, and PostgreSQL.
- Basics of HTTP/HTTPS and TCP networking.

Bachelor of Science in Physics | Florida International University | 2019

- Minor in Mathematics

Associate in Arts | Miami Dade College | 2016

Experience

Research Assistant, Florida International University | June 2018 – January 2020

- Examined particle physics data produced by the CLAS experiment in Jefferson Lab to determine the substructure of the rare and short-lived Lambda 1405 particle.
- Sorted, organized, and manipulated data through extensive use of Python and a number of its quantitative extensions such as Numpy, SciPy, and Matplotlib.
- Cleaned and sorted datasets with pandas as well as extracted visualizations to compare with experimental with results with the aforementioned scientific packages.
- Analyzed statistics acquired from transformed data to ensure results were within acceptable bounds.

Lab Assistant, Florida International University | August 2018 – January 2019

- Assisted throughout the duration of a junior level modern physics laboratory physics class.
- Maintained experimental apparatus such as the Photoelectric effect experiment which shows the quantization of light experimentally.
- Briefed students on their experiment rotations.
- Troubleshooted equipment such as photomultipliers or buggy python code.
- Held once per week help recitation sessions for students who needed help with experimental analysis.