Bruno Fregoso Frias

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Education

University of Central Florida — Orlando, FL
B.S., Computer Science, GPA: 3.9 — *Aug. 2022 – May 2026*

Relevant Coursework

- Calculus III
- Data Structures
- Object Oriented Programming
- Web development
- Discrete Structures
- Computer Logic

Experience

Undergraduate Research Assistant — February 2024 – May 2024
University of Central Florida — *Orlando, FL*

- Analysis on single-celled RNA sequences using Leidens clustering on sample size of over 17000 cells
- Used Python, Pandas, and Jupyter notebooks to visualize data distribution with various graphs, such as violin and liner graphs
- Researched best practices on sequences to filter out low quality data with measures such as mean absolute deviation to remove 1500 outliers

Bilingual STEM tutor — February 2023 – Present
PAPER — *Remote*

- Employed as a math, computer science, and science tutor, teach in both English and Spanish
- Help out 4-5 students every hour, consistently having to manage multiple at once
- Rated at the highest performance metrics, completed over 700 sessions

Projects

Random Restaurant Web App | *Javascript, HTML, CSS,* — August 2024 – August 2024

- Scaled Google's Places API to choose a random restaurant within 1000 meters of current users locations
- Developed dark mode functionality using Javascript to select all elements from the DOM, utilizing event listeners to change styles
- Implemented Geolocator API to obtain and create an object with users current coordinates

Letterboxd-Collage | *React, PapaParse, JavaScript* — February 2024 – February 2024

- Web application that creates a collage based on a users last 9 movies from letterboxd account
- Implemented PapaParse to parse through csv of users movie history and create an object of movie names
- Iterated through movie names and used the movie database API to fetch images of movies

Electric Vehicle Success Model | *Jupyter, Python, SKLearn, Pandas* — February 2023 – February 2023

- Project developed and presented at Georiga Tech's 2023 Hacklytics, Hackathon
- Preformed an exploratory data analysis to visualize and identify key metrics
- Implemented a random forest model with 100 decision trees to determine the success of electric vehicles

Clubs

Knight Hacks — August 2022 – Present

- Part of Hackathon Organizing team, working on catering, judging, hackers guide, and volunteering

SHPE — December 2023 – Present

- Volunteered at SHPE Jr. Conference, teaching computer science concepts to 40 students from local communities
- Part of professional development community, providing professional feedback to community of 100 students

Technical Skills

Languages: Java, Python, C/C++, JavaScript, HTML/CSS
Developer Tools: Git, Jupyter, VS Code, Visual Studio, PyCharm, IntelliJ, Eclipse, Nextjs
Libraries: pandas, NumPy, Matplotlib, SKLearn, React