

# Bruno Fregoso Frias

954-850-9180 | [brunofregosofrias@gmail.com](mailto:brunofregosofrias@gmail.com) | [linkedin.com/in/brunofregosofrias/](https://www.linkedin.com/in/brunofregosofrias/) | [brunofregosofrias.dev](https://brunofregosofrias.dev)

## EDUCATION

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### University of Central Florida

*B.S., Computer Science, GPA: 3.9*

Orlando, FL

*Aug. 2022 – May 2026*

## EXPERIENCE

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### 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

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### Blnd | *TypeScript, NextJS, Supabase, Spotify API, Last.fm API*

September 2024

*Shellhacks 2024*

*Florida International University*

- Developed web application that serves as a social hub for streaming services. Uses Spotify API using OAuth to fetch user playlists and friend playlists allowing them to blend the two together
- Utilizes last.fm API to get users' and friends top tracks, generating a monthly "top" playlist from friends
- Established database schema and postgres triggers to create a public users table as well as our authentication table upon user signup, allowing us to setup our friend system
- Deployed and live, since release 29 users authenticated and 14 playlists were generated and uploaded

### Fit Knights | *MongoDB, Express.js, React, NodeJS*

October 2024 – November 2024

- Built and deployed full stack MERN application on AWS lightsail
- Constructed API using EXPRESS to create routes to perform create, update, read, and delete operations on our database
- Developed custom middleware in typescript, authenticating and protecting routes with jwt tokens

### 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

## CLUBS & EVENTS

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### Knight Hacks VII

October 2024

*Organizer*

*Hackathon*

- Hosted hackathon at University of Central Florida, 547 total hackers, including 406 under-represented groups, and 359 first time hackers
- Helped organize volunteers, recruiting 18 volunteers, a 6x increase from the year before.
- Established judging flow/rooms so that 93 projects could be allotted 10 minutes each in our given timeframe
- Planned out social events to disburse throughout our event, such as movie marathons, tournaments, and other competitions

## TECHNICAL SKILLS

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**Languages:** Java, Python, C/C++, JavaScript, HTML/CSS, Typescript, PHP

**Developer Tools:** Git, Nextjs, NodeJs, Express.js, MongoDB, MySQL

**Libraries:** pandas, NumPy, Matplotlib, SKLearn, React