

SAI BYRI

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[Linkedin](#)

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[Portfolio](#)

SKILLS Python | Javascript | React / Redux | Flask | Express | Node.js | SQLAlchemy | PostgreSQL | Sequelize | Git | HTML5 | CSS3 | Docker

PROJECTS

Moodify (Python, Javascript, Flask, SQLAlchemy, React, Redux HTML5, AWS and CSS3)

[Live Site](#) | [Github](#)

A fullstack Spotify clone where users can select a mood, play songs, search for songs and create playlists to add songs.

- Created a custom audio player integrated with Redux store which allows users to scroll through a song and listen seamlessly throughout the site.
- Utilized SQLAlchemy to create a search algorithm where users can add songs to playlists, see songs in albums and music by artist.
- Applied AWS buckets to store and access music files throughout the site which allows a reliably fast selection of a variety of music.

Auto Barn (Javascript, NodeJs, Express, Sequelize, React, Redux HTML5, CSS3)

[Live Site](#) | [Github](#)

A fullstack Autotrader-like clone where users can sell a car, try a car they want to purchase for 5 days.

- Reduced server load through custom single relational database queries to extract data from many related tables.
- Created a custom date check algorithm to restrict overlap of car bookings and throw validation errors for ideal functionality.
- Utilized one-way data flow approach combined with centralized state management to create a predictable and performance optimized application without state collisions.

SustainaBnb (Javascript, NodeJs, Express, Sequelize, React, Redux HTML5, GMaps API and CSS3)

[Live Site](#) | [Github](#)

A fullstack Airbnb clone where users can host a property, add photos, and review a property.

- Implemented user authentication and privacy with backend and frontend systems to verify and allow user specific review changes.
- Designed an Airbnb-like multi-step form with accurate validations utilizing Javascript, React and Redux global state management to create a seamless UI for hosting properties.
- Integrated Google Maps using Google API to create a powerful tool and map browsing for users when looking at all properties.

EXPERIENCE

SJSU: College of Science, Peer Tutor Coordinator San Jose, CA

January 2019 - Present

- Utilized unique strategies to assist students achieve success in STEM courses while maintaining core interpersonal skills.
- Established novel communication methods between management and tutors which increased synergy, and work efficiency by 15%.
- Managed a team of 10 tutors and interviewed candidates to ensure consistent growth of the program.

Wilkinson Neurophysiology Lab at SJSU, Undergraduate Research Associate San Jose, CA

May 2018 - July 2021

- Assisted in developing an innovative optogenetics technique to specifically stimulate a certain type of neuron (gamma neurons).
- Reduced the time to analyze data by 50% by identifying an alternative method (Python and Lab Chart template match).
- Received funding (UG Grant) to develop and experiment with physiological temperature on mouse EDL muscle.

Biology Student Association, at SJSU, President San Jose, CA

August 2019 - May 2021

- Coordinated and organized workshops, and speaker events with various professionals in the biology field while growing SJSU BSA's network of programs and companies.
- Developed a new mentoring program to aid underclassmen with opportunities within the biology field of choice.
- Increased member involvement by 37% and expanded the organization by over 50% using various recruitment strategies.

Board of Directors at SJSU Research Foundation, Student Director San Jose, CA

December 2019 - May 2021

- Selected as the sole Student Director to serve on the organization Board for the entire San Jose State University (33,000 students).
- Met with Board Members to manage over \$60 million for supporting research throughout the university.
- Advocated for student engagement and success in research related activities to increase their professional and personal skills.

EDUCATION

App Academy San Francisco, CA

October 2021 - April 2022

- Rigorous 1000-hour+ coding school with less than 3% admittance rate that enhances full stack development using Python, Javascript, React, SQL
- Topics: OOP, TDD, algorithms, scalability, security, REST, web development design, database design

San Jose State University San Jose, CA

August 2017 - May 2021

- Graduated Summa Cum Laude (Highest Honors, GPA: 3.95/4.00) in B.S. Biological Sciences, Systems Physiology

AWARDS

- Honors - President's Scholar – earned 4.0 GPA (top 3.5% of all students) for academic year 2018, 2019, 2020
- SJSU Undergraduate Research Grant – 1 of 100 undergraduates selected 2019
- President of the Year Award – 1 of 2 selected out of 400 student organization leaders 2020