

# SAI BYRI

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## EDUCATION

**App Academy** San Francisco, CA

October 2021 - April 2022

- A 1000-hour immersive coding school that focuses on full stack development using languages and technologies such as Python, Javascript, React, SQL
- Topics: OOP, TDD, algorithms, 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

- President's Scholar; top 3.5% out of 33,000 students during four academic years. 2018, 2019, 2020, 2021
- 1 of 2 club presidents selected out of 400 student organization leaders for creativity, innovation, and dedication. 2020
- 1 of 100 undergraduates selected for a \$1,500 undergraduate research grant to conduct research with faculty. 2019

## EXPERIENCE

**Data-Aces, Software Engineering Intern**

June 2022 - September 2022

- Developed REST APIs that served data between the React client and Express.js server allowing healthcare PBM/Payer clients to create custom analytical scenarios and solve differences in market share and brand TRx.
- Created custom python scripts that utilized beautifulsoup and selenium to increase efficiency in extracting desired data from multiple health providers which are utilized to generate business insights and maximize business value.
- Designed and implemented a data pipeline architecture capable of ETL processes for a pharmaceutical client utilizing SQL and Snowflake tools.

**SJSU: College of Science, Peer Tutor Coordinator**

January 2019 - June 2022

- Managed a team of 10 tutors, interviewed candidates to ensure consistent growth, and utilized unique strategies to assist students achieve success in STEM courses while maintaining core interpersonal skills.

**Wilkinson Neurophysiology Lab at SJSU, Undergraduate Research Associate**

May 2018 - July 2021

- Assisted in developing an innovative optogenetics technique and reduced the time to analyze data by 50% by identifying an alternative method (Python and Lab Chart template match).

## 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** that allows users to scroll through a song and listen seamlessly.
- Utilized **SQLAlchemy** to create a search algorithm where users can add to playlists, and view albums and songs by artist.
- Applied **AWS buckets** to store and access music files throughout the site which allows a reliably fast selection of music.

**Auto Barn** (Python, Javascript, Flask, SQLALchemy, React, Redux, HTML5, and CSS3)

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

A fullstack Autotrader-like clone where users can view cars, sell cars, and try cars 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.

**SKILLS** Python | Javascript | React / Redux | Flask | Express | Snowflake | Node.js | SQLAlchemy | PostgreSQL | Sequelize | Git | HTML5 | CSS3 | Docker | Pair Programming | Object Oriented Programming | REST APIs