

SAI BYRI

Software Engineer, San Francisco, CA

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[Linkedin](#)

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[Portfolio](#)

EXPERIENCE

SwiftComply, *Software Engineer*

October 2022 - Current

- Orchestrated a large scale **full stack** initiative to create a robust tester registration platform.
 - Responsible for defining requirements with stakeholders, estimating project scope, and efficient task delegation.
 - Designed and architected a highly scalable backend system along with an intuitive and customer-focused UX.
 - Leveraged **Python Flask**, **PostgreSQL**, **Docker**, and **Google Cloud Platform** (CloudSQL, Cloud Run) to implement the backend and seamlessly deploy the application.
 - Utilized **Figma**, **React/Redux**, **SCSS** to execute the frontend development, for a polished and user-friendly interface.
 - Ensured the application met the high **security** and **performance** bar needed for multi-tenancy.
- Designed a **Python** system to parse legacy XML files and output CSVs for seamless integration into SwiftComply Backflow.
- Responsible for leading the initiative to migrate a legacy python system to **Golang** for XML file parsing, resulting in a 50% reduction in manual processing time and substantial improvements in system stability and maintainability.

Data-Aces, *Software Engineer Intern*

June 2022 - October 2022

- Developed and deployed **REST APIs** that served data between the React client and Express.js server. Allowed healthcare PBM/Payer clients to create custom analytical scenarios and visualize differences in market share and brand TRx.
- Created an **automated Python** system that utilized **beautifulsoup** and **Selenium** to efficiently extract desired data from multiple health providers. Data was utilized to generate business insights and maximize business value.
- Replicated and migrated nodes between two datacenters using **Datastax Cassandra** for a telecommunications client to ensure low latency/server load between API calls and data centers.

Wilkinson Neurophysiology Lab at SJSU, *Undergraduate Research Associate*

May 2018 - July 2021

- Developed an innovative optogenetics technique and reduced the time to analyze data by 50% by identifying an alternative method using **Python scripts** and Lab Chart template matching tool.

PROJECTS

Moodify

[Github](#)

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

- Tech Stack: Python, Javascript, Flask, SQLALchemy, React, HTML, AWS, CSS, Docker, Heroku, and PostgreSQL

Auto Barn

[Github](#)

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

- Tech Stack: Python, Javascript, Flask, SQLALchemy, React, HTML, CSS, Docker, Heroku, and PostgreSQL

SustainaBnb

[Github](#)

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

- Tech Stack: Javascript, NodeJs, Express, Sequelize, React, Redux, HTML, GMaps API, Heroku, and CSS

KEY SKILLS Python | Javascript | GoLang | React / Redux | Flask | Express | Snowflake | SQLAlchemy | PostgreSQL | Git | HTML5 | CSS3 | Docker | GCP | Heroku | Object Oriented Programming | REST APIs | UNIX

EDUCATION

App Academy San Francisco, CA

October 2021 - April 2022

- A 1000-hour immersive coding academy emphasizing full-stack development in Python, JavaScript, React, and SQL. Curriculum spans OOP, TDD, Algorithms, REST, Web & Database Design, and Docker.

San Jose State University San Jose, CA

August 2017 - May 2021

- Graduated *Summa Cum Laude* (Highest Honors, **GPA: 3.95/4.00**) with a B.S. in Biological Sciences, Systems Physiology.
- President's Scholar; top 3.5% out of 33,000 students during four academic years.
- President of the Year; 1 of 2 club presidents selected out of 400 student org leaders for creativity, innovation, and dedication.
- Undergraduate Research Grant (URG); 1 of 100 undergraduates selected for a \$1,500 URG to conduct research with faculty.