

SKILLS

Javascript/Node.js, Typescript, Next.js, Python, React/Redux, Express, Flask, PostgreSQL, HTML/CSS, Tailwind CSS, Storybook, REST APIs, Git, Jest, pytest, Docker, Amazon Web Services (AWS S3), Heroku

EXPERIENCE

Associate Engineer

Mulberry Technologies

Dec 2022 - Mar 2023

Remote

- Iterated and debugged Mulberry’s core product (browser extension) with a team of 6 engineers using **Typescript, React, Tailwind CSS, Python/Flask, Postico, GitHub, Figma**, and **Docker** to successfully complete **JIRA tickets in 2-week sprints**.
- Implemented Mulberry’s product tracking list and universal scraper to scrape data on product detail pages resulting in a significant time reduction to the form submission flow **from 10+ seconds to under 1 second**.
- Created a customer carousel component with **React Slick** to showcase testimonials and increase subscription conversion rate.
- Enhanced admin tooling with **React Admin** for the customer experience team to analyze and manage subscription plan data on the admin dashboard.
- Streamlined the checkout process by integrating a Stripe customer creation flow to the customer **API endpoints** using **Flask**.
- Wrote comprehensive unit tests on the front and backend using **Jest** and **pytest** to ensure functionality, reliability, and overall code quality.
- Collaborated with the team by regularly participating in peer code reviews via **GitHub** pull requests to ensure readability, maintainability, and consistency.

PROJECTS

Timeout

site | github

Inspired by Apple’s mobile alarm application, toggle alarms independently or collectively.

- Designed and built the entire application from zero to production with **Javascript, Python, React, Redux, Flask, PostgreSQL, Docker, AWS S3, Figma**, and **Heroku**.
- Integrated a **React** component package, **Multiselect**, to provide multi select functionality, dramatically reducing the number of **REST API calls**.
- Devised a snooze feature by incorporating a countdown timer in **local storage**.
- Established “global” state variables with **React Context** to pass the current time across the entire **component tree**.
- Optimized custom **error handling** and **validations** with **React hooks** to deliver inline errors in **O(1) time complexity**.
- Refined filenames using a **universally unique identifier (UUID)** in **AWS S3 buckets** to generate unique names and regulate specific file upload types.
- Restructured and debugged a model column in **Python’s Object Relational Mapping (ORM), SQLAlchemy**, to work around **Flask-WTF**’s DataRequired’s post-coercion behavior.


Sea

site | github

A FinTech investing application for trading a variety of stocks under the S&P 500 index.


- Built the portfolio feature from the ground up on a team of three other developers with **Javascript, Python, React, Redux, Flask, PostgreSQL, Docker**, and **Heroku**.
- Created an algorithm in **Flask** that models stock prices to consolidate third party and **REST API calls** by eagerly loading the data for optimized performance, scalability, and maintainability.
- Implemented a chart library, **Recharts**, to visualize a large collection of datasets for a selected timeframe.
- Integrated a **Python financial news API library**, Finnhub, to display real-time general and company news.
- Streamlined custom algorithms with tedious calculations to generate real-time asset updates for each transaction on the dashboard in **O(n) time and space complexity**.
- Collaborated with team members through **Agile methodologies** and **Git version control** to maximize workflow within a one week deadline.

EDUCATION



App Academy

An immersive 1000+ hour web development bootcamp



Illinois State University

B.S. in Secondary Mathematics Teacher Education