

# Kaiter Wu: Software Engineer

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[LinkedIn](#)

[GitHub](#)

[Portfolio](#)

## Skills

React.js, Redux, JavaScript, Python, HTML5, CSS3, Ruby, Ruby on Rails, SQL, PostgreSQL, AWS, Render, Git, Webpack, MongoDB, Mongoose, Express, Playwright, R, MATLAB, Python, C#, PTC Creo, Fusion 360, Abaqus CAE

## Projects

### What-AI-Want

[live site](#) | [github](#)

A group collaborative image generation application utilizing AI: MongoDB, Express, React/Redux, Node, AWS S3

- Customized asynchronous promise chains and leveraged React useState Hook to implement loading screen and render images generated by openAI API.
- Implemented full CRUD functionality for image preference lists, generated images, and user profiles.
- Optimized AI image generation by using pre-written API queries and limiting user input, resulting in a more user-friendly experience.

### Spacebook

[live site](#) | [github](#)

A Facebook inspired application using: Ruby on Rails, React/Redux, AWS S3, PostgreSQL, JavaScript, HTML5, CSS3

- Used Redux state and user authentication, gave users the ability to edit their own components, including profile page, posts, comments, and likes while persisting to PostgreSQL database.
- Utilized Rails Active Record associations with posts/comments so both can interact with 'likes' polymorphically.
- Integrated AWS s3 cloud storage and Rails Active Storage to store user profile/cover photos and render reactive image preview in real time.

### Cycle

[live site](#) | [github](#)

A single page Javascript real-time weather application using: vanilla JavaScript, D3, HTML5, CSS3.

- Integrated D3.js to generate and animate circular (donut) graphs to render weather data from [Visual Crossing](#) API to create user-interactive graph models.
- Generated dynamic DOM elements and modal manipulation in HTML to imitate web page routing while also rendering dynamic data visualizations.
- Implemented date input and customized API fetches, users can render forecasts spanning about 50 years.

## Recent Experience

### Biomedical Engineering Specialist | September 2020 - December 2022 | Northwell Health LIJMC

- Managed, maintained, and repaired medical devices across disciplines, orchestrated departmental device inspections while maintaining a minimum 95% device operational rate.
- Collaborated in a multi-million dollar deployment project replacing medication infusion devices. Authored and generated data for a multi network data analytic report that investigated device failure rate. (<95%)
- Coordinated project deployments, emergency repair calls, and device inspections with a diverse set of staff including engineering, hospital management, vendors, manufacturers, and out of network employees.

## Education

### App Academy | January 2023-April 2023 | New York, NY

In-depth Software Engineering program with focus on full stack web development and group programming.

### Stony Brook University | Fall 2014 - Spring 2018 | B.E in Biomedical Engineering | Long Island, NY

Honors College (<9% acceptance rate), Presidential Scholarship, Magna Cum Laude

Relevant Coursework: BME120: Programming Fundamentals(MATLAB), AMS 315: Data Analysis(R)