

# Sam Kratzer

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[Portfolio](#)

[GitHub](#)

[LinkedIn](#)

## Skills

Ruby, Rails, JavaScript, React.js, Redux, jQuery, SQL, PostgreSQL, HTML5, CSS3, Webpack, noSQL, MongoDB, Express.js, Mongoose, Node.js, D3.js, Heroku

## Projects

### LeetWager

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

HTML , React / Redux , JavaScript , CSS , MongoDB, Express , Mongoose , Node.js, Webpack , Recharts

*An app that allows users to bet on and create custom "wagers" odds that change dynamically as users bet on them.*

- Designed an algorithm to calculate probabilities of events occurring as a function of user input, facilitating the formulation of more accurate, rolling odds for custom user wagers.
- Wrote custom and relevant error messages to improve frontend engineers' ability to utilize the API.
- Collaborated with frontend engineers to optimize API response structure, increasing the effectiveness of frontend development.

### MyFace

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

JavaScript , React / Redux , Ruby on Rails , postgresSQL , CSS Heroku , Webpack , jQuery

*A single-page clone of Facebook where users can create accounts, make posts, and view posts in a newsfeed.*

- Used debouncing to limit the frequency of API calls made when searching, to improve backend performance.
- Implemented infinite scrolling on the newsfeed to reduce load time on the home page by 50%.
- Enhanced user experience by offering a suggested friends list, improving users' ability to interact with the site upon new account creation.

### U.S. Prison Data Visualization

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

JavaScript (ES6) , D3 , HTML , CSS , Webpack

*A visualization of demographic divides in the imprisonment rates of U.S. residents by race and gender.*

- Leveraged data from the Bureau of Justice statistics and D3 to create a highly interactive visualization of the racial disparities of U.S. incarceration rates.
- Created a force simulation, adding movement to the visualization, and in turn, making it more engaging.

## Experience

### Maitre'D/Administrator | 2019 - 2020

Larkin's Restaurants

- Promoted to a dual management/administrative position within the first two weeks on the job.
- Managed 20 servers in a high-paced work environment while maintaining excellent guest relations.

Overhauled food-cost tracking system from paper records to a digital system, utilizing Google sheets to dynamically track and visualize cost changes over each quarter..

### Executive Intern | Jun 2017 - Aug 2017

Office of the Governor of Vermont

- Conducted policy research in areas such as transportation, commerce, and recreation, allowing the Governor to better assess how agencies function and formulate future policy strategies.
- Created daily news briefs to keep the Governor and his staff up to date on current events.

## Education

### App Academy | 2020 | New York, NY

Highly selective sixteen-week, full-time software engineering program, consisting of more than 1000 hours of training.

### Tufts University | 2015 - 2019 | Somerville, MA

College of Liberal Arts

BA of Quantitative Economics & Chinese Literature , *Magna Cum Laude*