

# NICK DRAPER

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JavaScript | React | Redux | HTML | CSS | Ruby | Ruby on Rails | Mongoose | MongoDB | Node.js | Express.js | SQL | SQLite3  
PostgreSQL | Webpack | jQuery | Git | Heroku | Regex

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## PROJECT EXPERIENCE

**RubyReel** (Rails, React.js, Redux, Ruby, JavaScript, jQuery, PostgreSQL, AWS, CSS, HTML, Heroku)

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

*Pixel-perfect and feature-rich YouTube clone built in less than 2 weeks*

- Built front and back end-user authentication, using React-Router, BCrypt, and cookies, to create secure user logins that persist across sessions.
- Designed the Like model to have polymorphic associations so that creating new “likable” models (comments, videos, etc.) will require minimal code, speeding up development, and normalizing architecture.
- Counted IP Address visits to video pages using complex SQL joins queries to determine video view counts, using time since the last visit to provide security against inaccurate view counts.
- Hosted video files using AWS S3 with Ruby on Rails and ActiveStorage in order to improve load times and scalability.
- Integrated jQuery AJAX requests, Rails Router, and Rails ApplicationController to give users with proper authentication full CRUD functionality for videos and comments, given they are logged in and are the author of that video or comment.

**Bread** (Node.js, Express.js, React.js, Redux, MongoDB, Mongoose, JavaScript, CSS, HTML, Heroku)

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

*Cost Sharing web application built using the MERN stack built in less than a week*

- As Technical Lead, coordinated a team of four engineers, using Git workflow and performing code reviews to ensure smooth development across the front and back end, completing the full-stack application in less than a week
- Developed a user search component on the front end and an Express.js search route that uses a regex expression in order to retrieve all the relevant results from a given query.
- Constructed the front-end state using Redux, carving out multiple slices of state for user data to organize results shown from a user search, users that belong to an event, or the current user logged in to the application.
- Modeled out a data pipeline for event expense data using Redux state and props to different components in order to perform the logic determining amounts owed per user

**Gun Runner** (JavaScript, HTML Canvas, HTML, CSS, GitHub Pages)

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

*Addicting side-scroller game built using limited libraries in less than a week*

- Utilized OOP principles and ES6 class syntax to create hitboxes with canvas coordinates, as well as a custom collision behavior algorithm to produce appropriate collision behaviors in accordance with the game rules.
- Implemented 2D vectors to represent x and y position and velocity. This allowed for smooth movement of objects on the canvas as well as intuitive manipulation of object movement direction in 360 degrees and speed across the canvas.
- Created a sprite sheet reader function that minimized extra work needed in order to draw and animate additional sprites.

## PAST EXPERIENCE

**Technical Recruitment Consultant**

*Selby Jennings, Phaidon International*

June 2019 - June 2020

- Conducted market research and candidate sourcing, placing several mid-senior level candidates for new and pre-existing clients totaling over \$100,000 in total commission for the firm.
- Produced a commission calculation web application using HTML, CSS, and JavaScript to aid forecasting of commissions paid out to consultants. Used regularly by consultants and managers alike.

## EDUCATION

**Web Development** - App Academy

June 2020 - October 2020

*1000-hour full-stack web development course with < 3% acceptance rate*

**BA Economics** - University of Connecticut, Storrs CT

August 2015 - May

*2019 Relevant Coursework: Data Structures and OOP, Intro to Discrete Systems, Intro to Principal Programming*