

Skills JavaScript, Node.js, Mongoose, Express.js, jQuery, React.js, Redux, SQL, NoSQL, Ruby, Ruby on Rails, Git, HTML5, CSS3

Projects

Instagraff

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

Full stack clone of Instagram website using Ruby on Rails / Postgres backend and React.js / Redux frontend

- Developed cloud storage system integrated with Amazon Web Services allowing for future scalability and reducing server load
- Built mobile responsive design using responsive CSS grid providing full functionality to users on mobile devices
- Employed React-Redux to seamlessly update both frontend and backend state, allowing for real time visual response to user actions such as liking a post or leaving a comment
- Formulated custom API MVC framework to fetch all relevant and associated data in one request using polymorphic tables and database relationships, reducing the number of necessary fetches to minimize load time
- Incorporated User Authentication on both frontend and backend using protected React routes and BCrypt password hashing

Landslide.js

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

Platforming game rendered with JavaScript and HTML5 Canvas using Mongoose / Express.js backend

- Designed lean MongoDB / Express.js server to store game leaderboards in external cloud allowing for enhanced replayability and competition among users
- Integrated touch events using web APIs to implement customized mobile control scheme providing mobile users with smoother and more natural input
- Created game display engine using time differential calculations and animation frames, keeping render performance smooth regardless of user computer / device speed
- Implemented custom physics algorithms calculating vectors and velocities to accurately detect and resolve collisions and provide dynamic gravity / friction

Glitch.js

[work in progress](#) | [github](#)

Static web image editor using JavaScript and HTML5 with custom image filtering algorithms for creative output

- Connected with external Unsplash web API to provide thousands of source images reducing app hosting size
- Optimized sorting algorithms to dynamically map through multi million length integer arrays of image data quickly and efficiently
- Assembled specialized modal menus to display sample output gallery and inspire user creativity without interrupting their current work flow

Experience

Test Prep Teacher

Study Smart Tutors

Jun 2016 - Feb 2019

- Developed and facilitated specialized coursework preparing students for the SAT reasoning test
- Collaborated with a team of instructors at creating an engaging and scalable curriculum challenging students on Algebra, Geometry & Data Analysis topics as well as English Comprehension and Writing
- Provided direct leadership and support to individual classes of over 40 high school students

Grocery Clerk and Stocker

Star Grocery

Jan 2015 - Feb 2019

- Managed daily operations for produce department including sanitation and seasonal stock rotation
- Cashiered for over 80 customers daily while providing excellent customer service and support
- Worked as part of a team of 5 maintaining daily inventory of products and displays

Education

App Academy (Spring 2019)

Immersive software development course with focus on full stack web development

University of California, Santa Cruz (Spring 2016)

BS - English Literature