

Italo Lujan Pedreschi

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[PORTFOLIO](#)

[GITHUB](#)

[LINKEDIN](#)

SKILLS

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

PROJECTS

Cam Clickr (Rails, ReactJS, Redux, PostgreSQL, AWS)

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

Cam Clickr is a clone of the photo hosting site Flickr, it was created using a Rails backend with React/Redux in the frontend

- Created photo upload page which allows for multiple images to be added titles and captions added before group submit.
- Reactive photo grid on image index and user profile page allow for equal width rows and responsive resizing of the browser window.
- Utilized CSS3 to provide user extra information and links on photo hover to ease navigation around the site.

Pomegranate (MongoDB, Express, ReactJS, Redux, Node.js)

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

Pomegranate was built using the MERN stack by a small team of engineers, its purpose is to be a kitchen inventory tracker as well as a recipe suggestion program.

- Created API endpoints, axios requests, and thunk actions for the frontend development team to quickly and easily access information from MongoDB.
- Constructed backend with BCrypt and Password.js to allow users to create secure accounts and have the ability to login.
- Implemented feature using JS promises in React to save form inputs on failed submission attempts to improve user experience.

2D Projectile Motion Simulator (JavaScript)

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

A visual simulator for the classical mechanics problem of projectile motion using vanilla JavaScript and HTML Canvas

- Utilized DOM manipulation to create instructional modal that partly overlays and entirely deactivates background when open so the user does not lose contact with the simulation field.
- Employed requestAnimationFrame to allow for a more stable framerate and more fluid projectile flight path, improving timing and distance accuracy of free fall system.
- Incorporated CSS3 selectors to implement visual features which improve user interactiveness and experience.

EXPERIENCE

Intern Biology Researcher

NIH Bridges to the Baccalaureate - SFSU

Summer 2019, Summer 2020

- Utilized R programming and gene analysis to link release of Spanish Flu mishandling to a specific research institution.
- Designed and executed multi-week experimentation that located naturally occurring macrophage antibiotics in multiple San Francisco water bodies.
- Directed a three member experiment to determine whether UV ray wave reflections off various common surfaces constituted lethal doses of radiation to fission yeast cells.
- Adopted over a dozen microbiological and biotechnical skills to be used in independent research projects.

Business Development Assistant

JL Imagination

Oct 2018 - Dec 2020

- Implemented live streaming services that led to production of over a dozen virtual performances and acquisition of X clients.
- Conducted technology research, expanding video production capabilities of the company pre and post stay at home orders.
- Regularly rigged between \$5,000-\$30,000 audio-visual equipment for large corporate events with a small team in under 4 hours.

EDUCATION

Web Development - App Academy

Fall 2020

Immersive software development course with a focus on full-stack web development, which entailed 1000+ hours of coding.

BS Management - University of San Francisco (In Progress)

Fall 2020 - Present

44 units of upper-division management classwork focused on developing leadership and innovative creativity.