

Italo Lujan Pedreschi – Software Engineer

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SKILLS

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

PROJECTS

Cam Clickr (Rails, React, Redux, HTML5, CSS3, PostgreSQL, AWS)

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

Cam Clickr is a clone of the photo hosting site Flickr. It allows users to host, organize, and share their photos.

- Created upload page using local React state to allow for multiple images with unique titles and captions to be uploaded.
- Built reactive grids on photo array pages allowing for equal width rows and responsive resizing of the browser window.
- Utilized CSS3 to provide users extra information and links on photo hover to ease navigation around the site.

Pomegranate (MongoDB, Express, React, Redux, Node, HTML5, CSS3)

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

Pomegranate is a kitchen inventory tracker as well as a recipe suggestion program, built by a small team of engineers.

- Produced API endpoints, Axios HTTP request methods, 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 log in.
- Implemented asynchronous logic using JS promises to save form inputs on failed submission attempts to improve user experience (UX).

2D Projectile Motion Simulator (JavaScript, HTML5, CSS3)

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

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

- Integrated 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 JavaScript's native web API *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 such as hover effects and transitions on buttons and sliders which improve user interactivity 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 3 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 30+ virtual performances and acquisition of 20 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 < 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 - Spring

2022

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