

# Italo Lujan Pedreschi – Software Engineer

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## SKILLS

JavaScript, React, Redux, HTML, CSS, Ruby, Ruby on Rails, Python, 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 interactivensess 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.*