

# Madelyn Romberg

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## TECHNICAL SKILLS

**Languages** - Javascript, Python, Typescript, SQL, HTML, XML, CSS, Regex, Markdown

**Frontend** - React, React Native, React Testing Library, jQuery, Axios, Jest, Jasmine

**Backend** - Node.js, Express.js, Flask, Django, SQLAlchemy, PostgreSQL, MongoDB, Pytest

**Other** - Unittest, Integration test, Git, Github, AWS, Debugging, TDD, OOP, Google Earth Engine, Figma

## WORK EXPERIENCE

### Software Engineer Intern

May 2023 – June 2023

*Numbers API*

*San Francisco, CA*

- Developed Numbers API V2, a **RESTful** number trivia API supporting 17,000+ clients per month, as a modular application implementing **Flask Blueprints** to improve the legacy codebase's issues of scalability and maintenance
- Built **web scraping** scripts using Beautiful Soup that increased generation of new API content by 25%
- Designed and engineered the homepage mobile app in **React Native** with interactive widgets to the API content
- Ensured new code maintained **95% test coverage** with unit and integration tests using **Jest**

### Research Intern

June 2021 – July 2022

*NASA Jet Propulsion Laboratory*

*Pasadena, CA*

- Researched statistical relationships between landscape characterizations and their impacts on air quality for air quality forecasts, climate predictions and the formulation of new satellite and aircraft missions
- Processed raw satellite data from Earth Engine Developers and NASA Open Data using **Google Colaboratory** and **Google Earth Engine** to create active fire maps and data visualizations

### Digital Historian, Special Collections

Jan. 2022 – June 2022

*Los Angeles Public Library*

*Los Angeles, CA*

- Directly led the research and development of a website with an interactive map based on research in the digital archives collections using **WordPress**, **ArcGIS**, and **HTML**, boosting community access to 10,000+ local histories
- Facilitated cross-collaboration between departments and investors through biweekly Zoom meetings

## TECHNICAL PROJECTS

### Pix.ly

May 2023

*A full-stack photo editing application using a React, Flask, and PostgreSQL*

[Live Demo](#) | [Github](#)

- Built a photo gallery utilizing **React** to leverage component reusability and minimize browser refresh when interacting with the large image collections
- Engineered image storage using **AWS S3** to ensure scalability and reliable data storage as the image collection increases in response to user uploads
- Extracted image EXIF data using Pillow and stored in **PostgreSQL** to enable image-based searching of gallery

### Job.ly

April 2023 - May 2023

*A full-stack job search platform using React, Node, Express.js, and PostgreSQL*

[Live Demo](#) | [Github](#)

- Built a front-end UI using **React** to redirect load-time to mounting, enhancing the site navigation UX
- Developed and tested API with **Express** and **Jest** to return company and job results based on optional filtering criteria, providing each client with tailored job listings
- Implemented authorization and authentication security using **middleware**, limiting restricted requests to the API

## EDUCATION

### Rithm School

June 2023

Full Stack Web Development Bootcamp

*San Francisco, CA*

### University of California, Los Angeles (*Honors College, Cum Laude*)

March 2022

B.S. Atmospheric and Oceanic Sciences, B.A. History

*Los Angeles, CA*