

Madelyn Romberg

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TECHNICAL SKILLS

Languages - Javascript, Python, Typescript, SQL, PostgreSQL, HTML, XML, CSS

Frameworks and Libraries - Node.js, Express, React/React Native, React Testing Library, Flask, Django, jQuery

Tools - Jest, Jasmine, SQLAlchemy, unittest, VSCode, Git, Github, AWS, debugging, TDD, OOP, Google Earth Engine

SOFTWARE ENGINEER EXPERIENCE

Numbers API Software Engineer Intern

May 2023 – June 2023

Rithm School

San Francisco, CA

- Developed Numbers API V2, a RESTful number trivia API, as a modular application implementing Flask Blueprints
- Built web scraping scripts using BeautifulSoup for generation of new API content
- Designed and engineered a mobile app using React Native for the API homepage with interactive widgets
- Ensured new code maintained 95% test coverage

TECHNICAL PROJECTS

Pix.ly, a full-stack photo editing application using a React and Flask

Live Demo | Github

- Engineered image upload and storage through AWS to ensure seamless scalability and reliable data storage
- Enabled image searching by extracting photo EXIF data using Pillow and storing metadata in PostgreSQL
- Built a photo gallery utilizing React to leverage component reusability and minimize browser refresh for seamless user experience when interacting with large image collections

Job.ly, a full-stack job search platform using React, Node, Express.js, and PostgreSQL

Live Demo | Github

- Developed and tested feature for API users to filter query results based on optional filtering criteria
- Implemented authorization security for restricted CRUD requests to the API
- Implemented front-end user authentication to allow seamless sign up, log in, and logout operations
- Collaborated on front-end component hierarchy design using Figma

ADDITIONAL WORK EXPERIENCE

Researcher

June 2021 – July 2022

NASA Jet Propulsion Laboratory

Pasadena, CA

- Researched statistical relationships between landscape characterizations and their impacts on air quality during fires 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
- Presented visualized Earth system data to various NASA, JPL, and UCLA faculty in weekly meetings

Digital Historian

Jan. 2022– July 2022

Los Angeles Public Library, Special Collections

Los Angeles, CA

- Built a website with an interactive map based on research in the digital archives collections using WordPress, ArcGIS, and HTML to improve community accessibility to local histories
- Facilitated communication between departments and investors through biweekly Zoom meetings

EDUCATION

Rithm School

2023

Full Stack Web Development Bootcamp

San Francisco, CA

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

2022

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

Los Angeles, CA