

Education

Rithm School

- Full Stack Web Development

June 2019 – Sept. 2019

Johns Hopkins University (JHU)

- M.S.E Materials Science & Engineering - GPA 3.3

Fall 2016 - Winter 2017

University of California, Santa Barbara (UCSB)

- B.S. Physics - GPA 3.2

Fall 2012 - Spring 2016

Skills

- Programming Languages: Javascript, Python, Ruby, HTML/CSS, C++
- Frameworks, Databases: React, Express, Flask, Rails, PostgreSQL, Django
- Programs, Applications: Mathematica, Tableau, Jupyter Notebook, Microsoft Suite

Experience

Número – Software Engineer Intern

August – September 2019

- Modernized existing codebase using React, replacing the data visualization on a dashboard and making the website more performant
- Built API endpoints to serve components, reducing load times by refactoring data fetching implementation from the database

Tribe Dynamics – Data Consultant, Contractor

July 2016 – May 2019

- Maintained brand and influencer database to provide data for clients, internal research, and decision making
- Tested and integrated data pulling applications to validate, regularize, and maintain the integrity of internal research data
- Led product design while communicating with Customer Support, Data Engineering, and Business Operations
- Creating best-practice reports based on data mining, analysis, and visualization

University of Texas at El Paso – Business Affiliate/Researcher

June - September 2015

- Used modern computational modelling methods to calculate relevant properties of candidate materials with a focus on energy storage to screen them before they are synthesized
- Modeled and optimized molecular structures using NRLMOL (Naval Research Laboratory Molecular Orbital Library), a massively parallel code for electronic structure calculations, for use in organic photovoltaics
- Presented research project and represented program at COURI Symposium and external advisory board meeting

Projects

Jobly (React, Express, PostgreSQL)

Summer 2019

- A full-stack job searching and connecting application with token based authentication and authorization for logging in/signing up

Parsing and Regularizing Address Data (Python, Django)

Spring - Summer 2018

- Developed and integrated an ambassador relationship management application for influencer marketing programs to collect, validate, and compare incoming freeform data inputs
- Google Places API implementation to uniquely identify all establishments, geographic interests, and other POIs through HTTP requests

Characterizing and Identifying Unknown Samples for Homewood Museum

Winter 2017

- Performed tests using various methods (including AFM, SEM/EDS, XRD, and Raman Spectroscopy) to perform roughness analysis, study surface porosity and filtration properties, and material chemical composition
- Cross-referenced with cultural context and museum history to determine likely uses for specimen and its cultural and historical significance