

# Andrew Li

Full Stack Software Engineer

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## Skills

- Programming Languages, Databases: JavaScript, Python, Ruby, PostgreSQL, HTML/CSS
- Frameworks: React, Express, Flask, Rails, Jest, Enzyme, RSpec
- Programs, Applications: Mathematica, Microsoft Suite

## Experience

### Número – Software Engineer Intern

Aug 2019 – Sept 2019

- Refactored server-generated templates to React components, replacing the data visualization on a dashboard for finances management
- Built API endpoints with Ruby on Rails service objects and controllers to serve components, reducing load times by 50% by refactoring the data fetching implementation from the database
- Updated existing React components to Typescript
- Wrote frontend tests in Enzyme and backend tests in RSpec to increase coverage of existing codebase

### Tribe Dynamics – Data Analyst, Contractor

Jul 2016 – May 2019

- Managed a team of contractors to update and maintain brand and influencer database to provide data for clients, internal research, and decision making
- Integrated data pulling applications to validate, regularize, and maintain the integrity of internal research data
- Served as liaison between Account Management, Data Engineering, and Business Operations to improve clients' brand ambassador and product engagement
- Created best-practice reports based on data mining, analysis, and visualization

### University of Texas at El Paso – Business Affiliate/Researcher

Jun 2015 - Sept 2015

- Screened candidate materials with a focus on energy storage before they are synthesized by calculating relevant molecular properties using modern computational modeling methods
- Modeled and optimized molecular structures using NRLMOL, a massively parallel code for electronic structure calculations, for use in organic photovoltaics

## Education

### Rithm School

Jun 2019 – Sept 2019

- Full Stack Web Development

### Johns Hopkins University

Fall 2016 - Winter 2017

- M.S.E Materials Science & Engineering

### University of California, Santa Barbara

Fall 2012 - Spring 2016

- B.S. Physics

## Projects

### Jobly (React, Express, PostgreSQL)

Summer 2019

- Built a full-stack job searching and connecting application with basic logging in/signing up
- Authenticated and authorized users using JWTs and recovered login status through data hydration
- Protected against SQL injection attacks by parameterizing database queries

### Parsing and Regularizing Address Data (Python, Django)

Summer 2018

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

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