

# Taylor Hood

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## EDUCATION

### Rithm School

Full Stack Web Development Bootcamp

May 2022 – September 2022

San Francisco, CA

### McNeese State University

M.Sc. Degree in Chemistry and Environmental Science

August 2013 – December 2018

Lake Charles, LA

## TECHNICAL SKILLS

**Languages** - JavaScript, Python, SQL, HTML, CSS

**Libraries** - jQuery, Jest, Bootstrap, React Testing Library

**Frameworks / Tools** - Node, Express, React, Flask, SQLAlchemy, PostgreSQL, AWS, VSCode, Git, GitHub, Insomnia

## SOFTWARE ENGINEER EXPERIENCE

### Rithm School Internship

August 2020

#### NumbersAPI

San Francisco, CA

- Developed a server side API using a React frontend and Flask backend
- Managed database interactions using SQLAlchemy
- Created an ETL script to transfer and transform large data files for legacy data migration
- Implemented a popularity algorithm for trending items
- Added documentation and automated testing via unittest
- Gained experience with version control using Git and pull request code reviews
- Planned projects and collaborated with team using Agile development

## TECHNICAL PROJECTS

### Warbler

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

Python, Flask SQLAlchemy, PostgreSQL

- Server side rendered mock Twitter clone where users can follow and post messages
- **90% test coverages** between unit test and integration test across entire code base
- Added authentication/authorization to RESTful API routes
- Protected passwords in database with **Bcrypt hashing function**
- Protected User and Database information from CSRF attacks through WTForm's validation using **CSRF tokens**
- Used SQLAlchemy to dynamically query and update the database using a many to many relationship, and incorporated protection against SQL injection attacks in all queries

### Jobly

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

JavaScript, Node.js, React, PostgreSQL

- Designed a job searching API with full CRUD capabilities to allow users to apply to job listings posted by companies.
- Achieved over **85% test coverage** across the entire backend between unit and integration tests.
- Developed a single page React application with protected routes to view companies and job listing components including a catch-all route to redirect 404s or nonvalid routes.
- Implemented authorization and authentication middleware using **JSON Web Tokens** and Bcrypt library for encryption.

## ADDITIONAL WORK EXPERIENCE

### Data Pipeline Practitioner/Lab Data Manager

January 2020 – January 2022

Invista

Orange, TX

- Engineered server architecture, data pipelines, and databases for global processes.
- Monitored and moderated sample trends to derive potential areas of concern or improvement with LIMS RDBMS
- Trained and mentored end users on various tools to promote overall operational excellence.
- Created an innovative dashboard alerting in relation to key performance indicators.

### Instrumentation and Calibration Technician

February 2018 – January 2020

Invista

Orange, TX

- Maintained, calibrated, and repaired GCs, HPLCs, ICs, XRFs, TOCs, UV-Vis, ICPs, and KF titrators.
- Augmented operational policies and protocols to retain adherence to ISO 9001 standards.

### Lab Technician

September 2015 – January 2018

Citgo

Lake Charles, LA

- Ran quality control testing on lab samples and verified input data.
- Communicated with the site and generated Certificates of Analysis for finished product.