Taylor **Hood**

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EDUCATION

Rithm School   May 2022 – September 2022
Full Stack Web Development Bootcamp   San Francisco, CA

McNeese State University   August 2013 – December 2018
M.Sc. Degree in Chemistry and Environmental Science   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.