Taylor Hood

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My Website | Github | LinkedIn

Technical Skills:

- **Languages -** Python, JavaScript, SQL, Shell, HTML, CSS
- **Frameworks/Libraries -** Flask, Express.js, Beautiful Soup, SQLAlchemy, Selenium, Puppeteer, React, Jest, Bootstrap, jQuery, React Testing Library, Jinja
- **Tools -** Linux, Docker, AWS, Git, PostgreSQL, SQLite, RegEx, Redis, Security, Agile

Software Engineering Experience:

Contract Full-stack Engineer
December 2022-Present

Python, Flask, SQLAlchemy, Docker, Shell, Web-scraping

- Ensured uptime of a high-priority web scraping system, improved error messages, simplified code, and reduced SLOC
- Refactored deploy pipeline from complex and broken Terraform to a simple and clean shell script; decreased time from merge to deploy and improved mean time to recovery
- Feature work directly lead to a **35% increase in monthly active users**
- Reduced the time to onboard new engineers by **increasing docstring coverage from ~25% to ~75%**
- Improved error message output resulting in a tighter developer feedback loop and reduced mean time to repair

Rithm Internship
August 2022

Flask, React, NLTK
San Francisco, CA

- Improved developer productivity and software security by migrating from raw SQL to SQLAlchemy
- Saved hours of manual data entry time by creating an **ETL** script to perform a large migration from a legacy system
- Used **natural language processing (NLTK)** to improve accuracy and integrity of data
- Improved production deploy reliability by doubling unit coverage to 50%

Data Management and Technical Experience:

Data Pipeline Practitioner/Lab Data Manager
January 2020 – January 2022

Invista
Orange, TX

- Engineered server architecture, data pipelines, and databases for global processes using OSI Pi
- 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

Technical Projects:

Warbler (Server side mock social media platform) | Github

Python, Flask, Jinja, SQLAlchemy, PostgreSQL

- **90% test coverage** between unit test and integration across entire code base
- Secured routes using Flask's session-based Authentication/Authorization
- Protected database passwords with **Bcrypt hashing and salting**
- Protected user and database information from CSRF attacks with WTForms validation using **CSRF tokens**
- Migrated to the SQLAlchemy ORM which provided protection against **SQL injection attacks**

Jobly (Server side mock job posting platform) | Github

JavaScript, Node.js, Express.js, React, PostgreSQL

- Employed **Test Driven Development** to rapidly deploy a robust CRUD API
- Achieved over **85% test coverage** across the entire backend between unit and integration tests
- Developed a single page React application with protected routes
- Implemented authorization/authentication middleware using **JSON Web Tokens**

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