Trace DeLange

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Github | Portfolio | Blog

SOFTWARE ENGINEER

Experienced in Ruby on Rails and JavaScript based programming and a background in scientific data processing using Python and Matlab. Possess strong skills in communication that help team-oriented companies solve organizational and technical problems.

TECHNICAL SKILLS

- Python, JavaScript, Ruby
- React, Rails, Flask
- Database Management (PostgreSQL, Firebase MySQL)

- Full-Stack Development
- Test-Driven Development (Rspec, Capybara, Jest)
- Cloud Hosting (Heroku, AWS, Firebase)

- Strong Documentation Skills
- Effective Verbal and Digital Communication Skills
- Strong Organizational Skills
- Attention to Detail

TECHNICAL PROJECTS

Monster Audience - Github | Demo
A social platform based around reviewing and rating user submitted subjects like movies, books, places and experiences.
- Developed full backend infrastructure to manage user authentication, posts, friends and personalized feeds.
- Implemented React-Redux as a state-management system to simplify and standardize state data across the application.
- Utilized JSON tokens and localStorage as a method of client-side user authentication.

WBC Sales Map - Github | Demo
A customer-facing map featuring distributed product information for a local micro-brewery.
- Developed algorithms to autonomously process sales reports provided weekly from 3 different distributor sources.
- Established an organized scalable database featuring information regarding over 500 unique client order histories.
- Created a mobile friendly frontend web application featuring geolocation information regarding where recently distributed products can be purchased by customers.
- Monitor site health over the course of +1,000 monthly user visits using analytical tools provided by Heroku.

Money Talks- Github | Demo
A data collection tool designed to scrape social media mentions of tradable stock market symbols, in order to compare the relationship between the popularity and value of a stock.
- Developed Python algorithms to process and aggregate data from ~20,000 social media posts daily.
- Established a remote Linux environment responsible for downloading, processing and cataloguing each social media mention using a Raspberry Pi and Heroku based PostgreSQL database.
- Created a frontend application to display collected data in parallel with financial information provided via Alpha Vantage API.

EXPERIENCE

Impromptu   Remote
Freelance Developer   05/2021 - Present
- Developed a frontend admin portal for use by vetted admins to carry out full CRUD actions on data representing community based events.
- Document progress and update clients on project changes as a contracted consultant.

American Preclinical Services   Minneapolis, MN
Pathology Technician   08/2020 - 05/2021
- Function as a member of a highly efficient team responsible for conducting a wide range of duties in the support of proprietary preclinical medical device trials for over 300 clients.
- Implemented Python scripts in support of data management / archival.

EDUCATION

Flatiron School   Remote
Full Stack Web Development, Ruby on Rails and JavaScript program   05/ 2021 - 10/2021

University of Oregon   Eugene, OR
Bachelors of Science, Biology   01/ 2020