

PROJECTS

Stock Market Data

<https://github.com/mohobson/marketdata>

- Wrote a Python program that uses an API to fetch data from the stock market. The program uses algorithms to identify potential buy opportunities in the stock market, then creates an Excel spreadsheet and .png charts that are emailed to my inbox using SendGrid's email API.
- Used Mac OS X command line and Visual Studio plug-ins to commit changes with Git and push to a remote repository on GitHub.
- This program automates an estimated 2 hours of stock market research on each run.

Social Blog Site

<https://github.com/mohobson/quackr>

- Deployed a dynamic website to Google Cloud Platform written in Python with Flask web development framework. Users can create an account and post to a shared feed.
- Built the application from Flask documentation. It uses the Jinja template engine to render pages, CSS to style HTML, and an SQLite database to store information.

EMPLOYMENT

Roadway Design Analyst

Kimley-Horn

May 2019 – Present

- Use CAD software to design 50+ roadway projects and exceed client expectations.
- Manage schedule and \$200k budget for project tasks.
- Serve as Continuous Quality Improvement (CQI) Champ for the Raleigh Infrastructure group. Implement quality initiatives and host educational events relevant to engineers.
- Developed a batch processing script that automates CAD file cleanup for electronic submittals to clients, saving analysts 60 minutes of time during submittals.
- Initiated cloud resources for Kimley-Horn's NC offices to share production notes and important information about our largest clients to create more consistent submittals between offices.
- Operated Bentley's OpenRoads CAD application to initiate the transition to a new design software for roadway engineering consultants. Documented notes and coordinated with developers about bug fixes to optimize the application.

EDUCATION

Raleigh, NC

NC State University

August 2015 – Dec 2019

Bachelor of Science in Civil Engineering | Minor in Business Administration

ADDITIONAL INFORMATION

Skills here