

Daniel Morgan

Software Engineer

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SKILLS

Python (Pandas, Webscraping, Selenium), AWS (Redshift, S3), SQL (SQLite3, PostgreSQL, T-SQL), JavaScript, Ruby, Ruby on Rails, React, Redux, HTML, CSS, Mongoose, MongoDB, Node.js, Express.js, Webpack, jQuery, Git, Heroku

PROJECTS

ESPN Fantasy Football History

[Github](#)

ESPN Fantasy Football History is an application that scrapes espn's fantasy football page, going through all years of league history and collecting every stat available. It then pushes the stats into AWS S3, and finally copies the data into a redshift cluster for querying. Technologies include AWS(S3, Redshift) and python(Selenium, BeautifulSoup, OS, boto3, dotenv, SQLAlchemy).

- Incorporated Selenium webdriver and bs4 BeautifulSoup to access every page in the history of the fantasy football league and scraped the data into a dictionary.
- Cleaned and reformatted the dictionaries into the desired format and uploaded the dictionaries into an AWS S3 bucket using SQLAlchemy, boto3, and dotenv libraries.
- Copied the data uploaded to S3 into two separate tables in redshift and then performed advanced queries using common table expressions, exported the results of the queries as a CSV which was then exported into an excel file for visibility.

Golf Stats

[Github](#)

Golf stats is an application that scrapes the website golfstats.com for golf major statistics and turns them in PostgreSQL databases to allow for querying, using python(Selenium, pandas, webscraping) and PostgreSQL

- Applied webscraping techniques to automatically direct the user to golfstats.com, sign-in, traverse the website and import all of the relevant data into an excel file.
- Utilized the pandas library to import and transform the excel file into a readable CSV, and then turned the CSV files into a PostgreSQL database.
- Created SQL queries using the imported database to organize and display the most important statistics to help present the user with the most relevant statistics to consider when betting on the Masters.

Get Set - Backend Lead

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

GetSet is a team built photo comparison scavenger hunt game where users can create and participate in photo hunt challenges, using javascript, react, redux, Mongoose, MongoDB, and AWS.

- Utilized the resemble API alongside AWS to show the similarity percentages between up to 10 images at a time.
- Designed and built four separate schemas and validations using Javascript, Mongoose, and MongoDB to allow users to build and store account information within the database.
- Constructed all backend routes to and from every page, along with corresponding error messages using express.js middleware.

EXPERIENCE

Analyst

LivePerson

Sept 2019 - Mar 2020

- Worked closely with a software engineer in running over 3,000 tests for an internal sales application(Quote-Builder), from the front-end of the website all the way through to making sure the data flowed through properly to Salesforce.
- Built workflows for Quote-Builder using LucidChart, documenting each step of the process from signing up with email all the way through to the confirmation email for every different order and payment type(credit card, wire transfer, etc)
- Stepped in to the billing team to close out over 1,000 pending billing queues, while still building the workflows and testing on QuoteBuilder.

Junior Trader

Mirae Asset Global Investments

June-August 2018

- Traded equities, options, and other instruments in developed and emerging markets using Bloomberg's EMSX platform.
- Analyzed market news and trading flows and relayed all relevant information to five portfolio managers and 10+ analysts.

Operations Specialist

R. Sealaus * & Company/GraniteSprings Asset Management

September 2016- May 2018

- Reconciled Bloomberg trader workspace position sheet with BTIG prime brokerage account.

EDUCATION

App Academy - Immersive software development course with focus on full stack web development (2020) ~3% acceptance rate

University of Delaware - Bachelor of Science - Finance (Spring 2016)