MICHAEL KUNG

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| GitHub: https://github.com/mkung8889
| Portfolio: https://mkung8889.github.io/

SUMMARY

Motivated, self-starter, responsible Data Analyst with a get-things-done attitude able to work under-pressure. Proficient in data analytics and visualization using Python, JavaScript, and SQL. Analytical and critical thinking skills with a background in science and research. Known among co-workers and team members as a go-to problem-solver and good communicator.

TECHNICAL SKILLS

Languages: Python, JavaScript, HTML/CSS, SQL
Applications: Tableau, Jupyter Notebook, MySQL, MongoDB, Excel

RELEVANT EXPERIENCE

System Administrator + Office Manager   May 2017 – Current
Fidelity Dental P.A.   Austin, TX
 Install/maintain/configure practice management software and computers. Oversee and maintain daily operations and revenue enhancement. Responsible for new patient acquisition and patient communication. Create reports and visualization on practice performance. Setup and maintain a MySQL database to monitor and analyze production/collection of each dentist, as well as analyze patient demographics.

Key Accomplishments:
- 400% increase in new patients since starting position.
- Set up MySQL database for better data analysis than practice management software.
- Use visualizations with python to report practice performance for more effective appointment scheduling.

ADDITIONAL EXPERIENCE

Graduate Student Researcher   Jan. 2016 – May 2017
University of Texas at Dallas   Richardson, TX
 Preformed research on aging memory. Used behavioral study and analyzed neurochemistry of brain samples. Used excel to run statistical analysis to see if neurological changes correlated with behavioral memory tests.

PROJECTS

Cinematrix | GitHub: https://github.com/mkung8889/movie_app
 | App: https://movie-suggestion-app.herokuapp.com/
 Used a machine learning algorithm, matrix factorization, to recommend 5 movies a user should watch based on their previous movie ratings.
- Responsibilities:
  - Helped work on the matrix factorization.

- o Created the python script to pull the top 5 recommended movies.
- o Created the flask app to display the recommended movies, user data, and the web scrapped movie information.
- o Hosted the app onto Heroku
- Tools / languages used:
  - o Python (Pandas, NumPy, Flask, JSON)
  - o Web Scraping
  - o HTML/CSS
  - o Bootstrap
  - o Tableau

US Demographic Interactive Visualization | GitHub: https://github.com/ddcruz/project-2
| App: https://ddcruz-project-2.herokuapp.com/

An interactive visualization of state population density and city demographic. App uses multiple visualizations to summarize a city's population demographic data gathered from the US census.
- Responsibilities:
  - o Data cleaning and upload to database.
  - o Created the HTML dashboard
  - o Bind JavaScript popup with city demographic data to Leaflet dots
  - o Flask app routes
- Tools / languages used:
  - o Python (Flask)
  - o JavaScript (Plot.ly, d3, Leaflet)
  - o SQLite
  - o HTML/CSS
  - o Bootstrap

Belly Button Diversity | GitHub: https://github.com/mkung8889/plotly-bellybuttonapp
| App: https://mkung-bellybuttondiversity.herokuapp.com/

An interactive dashboard visualizing belly button diversity data from Rob Dunn Lab (http://robdunnlab.com/projects/belly-button-biodiversity/). JavaScript is used to populate the dropdown options so user can select which sample ID to visualize. Plotly.js is used to create pie and bubble chart.
- Responsibilities:
  - o Created Flask App and dashboard
  - o Wrote JavaScript script
  - o Hosted the app onto Heroku
- Tools / languages used:
  - o Python (Flask)
  - o JavaScript (Plot.ly, d3)
  - o jQuery
  - o HTML

EDUCATION

Bootcamp Certificate: University of Texas at Austin McCombs School of Business,
Austin, TX [Data Analysis and Visualization Boot Camp]
A 24-week intensive program focused on gaining technical programming skills in HTML5, CSS3, JavaScript, jQuery, Bootstrap, Tableau, MySQL, MongoDB.

M.S. Applied Cognition and Neuroscience: University of Texas at Dallas, Richardson, TX

B.A. Biology w/ minor in Business: Texas A&M University, College Station, TX