ROBERT MCALMON

Austin, TX 78705
Phone: 512.632.3605 | Email: mcalmon.robert@gmail.com
LinkedIn: https://www.linkedin.com/in/robert-mcalmon-a3b40a135/
Github: https://github.com/rgmcalmon

SUMMARY

Data analyst with a Masters of Science in Mathematics. Hoping to use mathematical and programming skills in long-term projects. Enthusiastic learner with affinity for detail who enjoys finding elegant, organic solutions to problems.

TECHNICAL SKILLS

Languages: Python, Javascript, SQL, VBA, HTML, CSS.
Data Manipulation & Visualization: pandas, matplotlib, Plotly, D3.js, Leaflet.
Databases: MySQL, mongoDB.
Other: Git, Flask, command line.

PROJECTS

Statewide Opioid Analysis| https://statewideopioidanalysis.herokuapp.com/
- Analyzed opioid prescription rates and death rates across the U.S.
- Managed the visualizations and contributed to the front-end development.
- Visualizations created using Plotly.js and Leaflet. Back-end created in Python using Flask-SQLAlchemy and a MySQL database.

ATX Crime Analysis | https://github.com/AshleyMcGee/atx_crime_analysis
- Examined the correlation between crime rates and property values / population per zip code in Austin, TX.
- Managed and optimized the master code file, cleaned the data, and led the statistical analysis.
- Statistics and visualizations created using Python, pandas, and matplotlib.

WeatherPy | **https://rgmcalmon.github.io/latitude_vs_x/**
- Compared latitude to weather variables.
- Pulled city data using citypy and OpenWeatherMap API and applied regression analysis
- Statistics and visualizations created using Python, pandas, and matplotlib.

EXPERIENCE

Rater   Oct 2018 – May 2019
Lionbridge Technologies, Inc.   Waltham, MA (remote)
Evaluate utility of search results for mobile users according to strict and comprehensive guidelines. Determine quality and trustworthiness of web pages. Undertake thorough research to justify the data provided. Complete tasks within tight time frame.

Instructional Assistant / Lab Tutor   2014 – 2018
Texas State University.   San Marcos, TX

Taught lab sections and gave lectures for Precalculus and Calculus II. Tutored lower and upper-division math/physics courses at Student Learning Assistance Center and Athletic Academic Center. Graded quizzes and homework for Business Calculus, Linear Algebra, and Calculus III.

EDUCATION

Data Analysis & Visualization Bootcamp: University of Texas, Austin, TX
A 24-week intensive program focused on gaining technical programming skills in Excel, VBA, Python, R, JavaScript, SQL Databases, Tableau, Big Data, and Machine Learning.

M.S. Mathematics: Texas State University, San Marcos, TX   Aug 2018
    Thesis: "Bruhat Order and Coxeter Hyperplane Arrangements"
    https://digital.library.txstate.edu/bitstream/handle/10877/7366/MCALMON-THESIS-2018.pdf
    Additional presentations: "How to Divide Polynomials with Multiple Variables & Solve Systems of Polynomial Equations" Oct 2017

B.S. Mathematics: Texas State University, San Marcos, TX   Aug 2015
    Minor in physics