Michael Gugliotti

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📍 Baltimore, Maryland

Objective

Analytically-driven programmer with Python, Google Data Analytics, and Software Development Certifications, complemented by a Master's degree in Sound and Visual Technology. Extensive familiarity with Orioles roster dynamics, advanced statistics, intra-league complexities, and positional rankings. Passionate for applying innovative analytical modalities, including sabermetrics and videographic assessments, to complex data-saturated environments to reveal hidden trends and improve organizational decision-making. I am actively seeking the Pro Scouting Analyst Fellowship to apply my analytical proficiency and longstanding familiarity of the Orioles legacy to make impactful data-driven insights, optimize player evaluation strategies, and contribute to the Orioles' continued success and the advancement of professional scouting and baseball analytics.

Skills

- Proficient in Python for data analysis and software development, delivering efficient code for data tasks
- Adept in SQL fundamentals, relational databases (PostgreSQL, MySQL), and NoSQL databases (MongoDB)
- Creation of compelling data visualizations in R with ggplot2 and tidyverse, enhancing data comprehension
- Expertise with Microsoft Suite including Excel, pivot tables, formulas, and macros
- Foundational knowledge of Sabermetric research and principles, utilizing CSV files to conduct in-depth research on specific players, focusing on hitting/pitching metrics like wRC+, WAR, wOBA, LOB%, and tERA
- Implement data transformation and cleaning with pandas
- Utilization of API data retrieval, deploying HTTP and Python requests to access data
- Execution of ETL pipeline processes, optimizing data flow, and reducing processing time by 20%.
- Agile software development methodologies for project completion
- Strong problem-solving and debugging skills
- Working knowledge of C, Javascript, HTML, and CSS programming languages for versatile coding tasks
- Employ Git and GitHub for version control, ensuring codebase integrity
- Translate complex datasets and metrics into concise, actionable reports
- Excellent communication skills and collaboration across various teams
- Ability to work in a fast-paced environment with a high level of attention to detail
- Highly skilled in complex data dissection and interpretation

Certifications

- *Google Data Analytics Certification* - Mastery in data types, structures, analysis, and visualization
- *UMBC Training Centers Software Developer Foundations* - Profound understanding of Python programming and data engineering, with exposure to Google Cloud Platform, Pandas, and ETL pipeline development with PySpark
- *Python Institute Certified Entry-Level Python Programmer Certification* - Scored 100%, excelling in core programming concepts and debugging

Projects

- Created a Python script to access and filter New York Times Archive API by date, conducting data analysis, and visualized insights with matplotlib showcasing useful skills for scouting analysis
- Designed Python program for Fortune 500 data analysis and decision support. Processed and analyzed financial metrics, including profit, revenue, and company rankings, to extract valuable insights for strategic decision-making. Demonstrated proficiency in data cleaning, statistics, and data visualization

- Translated complex sports datasets into actionable insights by deploying a Python program to conduct in-depth analysis of Tour de France data, revealing race trends and performance metrics
- Deployed python API requests to populate specific variables and create National Park data structure for data aggregation, cleaning, and analysis
- Analyzed "Dracula" by Bram Stoker, identifying text-related analytics in Python demonstrating an ability to scrutinize and interpret data in a meticulous manner ensuring effectiveness and data integrity

Work Experience

Independent Audio Engineer | 2015 to Present

Faust Studios (Czech Republic), Magpie Cage (USA), freelance (worldwide - credits in 40 countries / 6 continents)

- Proficiency in visual programming and data aggregation with IoT devices, including the evaluation and analysis of data and its appropriate scaling, to inform and guide audiovisual decision-making
  - Engineered an innovative ecosystem and interface that seamlessly integrated Bitalino IoT sensors and an EKG monitor, enabling real-time biometric data capture and analysis
  - Utilized video analysis and machine learning to build continuous testing feedback loop to streamline and scale data outputs
  - Collaborated across genres, time zones, languages, cultures, and media platforms, including film, television, advertising, broadcast, and music
- Accomplished in recording, mixing, mastering, sound designing, audio editing, music composition, live sound, directing, videography, video editing, and audiovisual post-production
- Instructed 30 students in a Sound Design for Film workshop, highlighting data-driven decision-making in audio architecture. The workshop covered Foley, surround sound, and microphone placement techniques, incorporating a report on microphone selection to optimize audio processes and align with project goals, demonstrating expertise in sound design and data-driven enhancements
- Taught University classes in sound designing for film and broadcast
- Produced ambisonic recordings for Virtual Reality as part of a corporate advertising project
- Orchestrated ambisonic recordings for Virtual Reality to boost tourism in the City of Tallinn

Education

Master of Arts in Sound and Visual Technology, University of Tartu, Estonia, 2021

Bachelor of Arts in English, Virginia Tech, 2012