

Michael Gugliotti

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Objective

As an analytically-driven programmer with Python, Google Data Analytics, and Software Development Certifications, I bring a deep passion for decoding complex datasets and optimizing operational efficiency through innovative analytical techniques. My expertise includes crafting robust visualizations using R, Plotly, Seaborn, Matplotlib, and Tableau, alongside implementing machine learning techniques with PyTorch, TensorFlow, and Scikit-Learn. Specializing in NLP, advanced statistics, geocoding, and audiovisual processing enables me to deliver wide-ranging, comprehensive solutions. I'm eager to apply my skills to transform data into actionable insights within a dynamic environment.

Technical Skills

- **Programming:** Python, SQL, Go (working knowledge of R, C, JavaScript, CSS, HTML)
- **Databases:** MySQL, PostgreSQL, MongoDB
- **Software Tools and Libraries:** Pandas, Keras, Tensorflow, Numpy, PyTorch, Scikit-Learn, Plotly, Seaborn, Matplotlib, Statsmodels, SciPy, OpenCage, NLTK, SpaCy, Requests, Microsoft Suite, Tableau, Visual Studio, Pycharm
- **Development:** Diagnostic and Predictive Data Analytics, Object-Oriented Design (OOD), ETL Pipeline Optimization, Testing and Quality Assurance

Skills

- Strong analytical and problem-solving skills with the ability to dissect and interpret various data
- Ability to work under deadlines and adapt to evolving tasks with unwavering commitment to data integrity
- Fast Learner with a willingness to take on new responsibilities
- Excellent communication and collaboration across various teams
- Experienced in Agile and other project management methodologies for efficient workflow and project completion

Education

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

Bachelor of Arts in English, Virginia Tech, 2012

Certifications

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

Projects

- **National Park API Data Sync:** Data visualization, geospatial analyses, web-scraping
- **MLB Sabermetric Processor:** Player processing, comparison, and visualization with sabermetric statistics
- **Fortune 500:** Merged multi-file datasets, outlier-detection, regression analyses, data visualization
- **Dracula NLP:** NLP with tokenization, sentiment analysis, part-of-speech tagging, and topic modeling
- **NYT Archive API:** Filtering New York Times Archive API Legacy data for extensive NLP analysis
- **Tour de France Metrics:** Machine learning, deep learning, time series analysis, data visualization, geocoding
- **Frame Jam:** Metadata retrieval, video processing and workflow, dynamic output, file input/output flexibilities
- **AV Bio Sensors:** Biophysical data acquisition, machine learning, real-time audiovisual processing

Work Experience

Independent Audio and Visual engineer | Global Operations | 2014 - Present

- Globally collaborated with studios, artists, production teams, and more in over 40 countries and 6 continents, deploying a creative and technical mindset to enhance audiovisual experiences across a multitude of projects
- Designed an advanced audiovisual ecosystem integrating Bitalino IoT movement sensors and an EKG monitor for real-time biometric data acquisition, analysis, and processing for immersive live performances
- Applied audio/video analysis, machine learning to numerous projects, establishing feedback loops for data scaling
- Worked closely with individuals and teams across various genres, time zones, and media platforms
- Instructed 30 students in a Sound Design for Film and Broadcast workshop, emphasizing proven strategies in audio architecture, analysis, and various microphone and audio editing techniques
- Taught university classes in audio recording, editing, mixing and mastering with an emphasis on data-driven enhancements and modernization in ambisonics and virtual reality, surround sound, and sound for film
- Orchestrated ambisonic recordings for a Virtual Reality tour, utilizing state-of-the-art equipment and strategies to boost tourism in the City of Tallinn

Audio Engineer | Faust Studios | Prague, Czech Republic | 2015 - 2019

- Directed sound initiatives across diverse film, music, and broadcasting projects, applying advanced audio engineering expertise to optimize efficiency and deliver exceptional quality on industry-leading productions
- Led international production teams for multiple award-winning projects, making impactful decisions in audio design
- Delivered tailored solutions for optimized workflows and exceptional project outcomes
- Entrusted with opening/closing managerial duties, overseeing operations at a decorated high-value recording studio with multiple rooms and an abundance of state-of-the-art and priceless vintage equipment
- Adept at recording, mixing, and mastering audio and worked in Czech Republic's biggest music studio

Owner / Operator and Teacher | Smith English Tutors | Prague, Czech Republic | 2015 - 2018

- Acquired and successfully grew business, achieving an 80% increase in students and profitability
- Managed a team of employee teachers and substitute teachers, demonstrating strong leadership abilities
- Spearheaded administrative, financial, HR, and other key responsibilities with precision and diligence
- Negotiated and secured exclusive teaching contracts with international IT firms, financial businesses, healthcare companies, telecom agencies, and a leading international dialysis company, Fresenius
- Conducted individualized and group training sessions for professionals in a myriad of careers, including IT specialists, professors, accountants, programmers, doctors, graphic designers, VPs, and HR personnel
- Managed and taught classes for doctors at the main hospital in Prague under an exclusive deal
- Sold company for a profit, showcasing effective business management and entrepreneurship

Retail Management Associate and Guitar Teacher | Mike's Music | Ellicott City, Maryland | 2012 - 2015

- Entrusted with managing opening/closing procedures, setting alarms, and handling cash register duties
- Oversaw scheduling for a 1000-student music school, ensuring efficient operations and customer satisfaction
- Contributed to marketing campaigns in public schools for rental instruments, driving sales and brand awareness
- Achieved top honors of personally renting out the most instruments in Maryland for three consecutive years
- Demonstrated expertise in inventory management, maintaining accurate stock levels and organization
- Provided personalized guitar instruction to students ranging from 6 to 70, fostering musical growth and passion