**Michael Diaz**

**Data Scientist & Everything Developer**

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| SUMMARY As a Data Scientist and Developer, I combine the ability to sort, analyze, and visualize complex datasets into interactive charts. I can also take a project from an idea, to prototyping, to production. Ability to contribute to the full life-cycle of software development through Agile methodologies in a team or independent, as needed. TECHNICAL SKILLSData Analysis, Statistical Modeling, Machine LearningPython, Javascript (Object-Oriented Programming Languages) Scikit-learn (Machine Learning), Pandas (Data Frames), Matplotlib & Seaborn & Plotly & D3 & Leaflet & Mapbox (2D Visualizations), Flask (Web Framework), Beautiful Soup (Web Scraping), Requests (API), Flexbox, CSS GridBusiness Intelligence PlatformsExcel, TableauFast querying, sorting, reporting and powerful visualizations of Data.DatabasesMongoDB, MySQLDistributed & Relational Databases. Collect, store, protect, and retrieve sensitive data.Front-End DevelopmentBig Three HTML, CSS, JS, D3jQuery & D3 (DOM Manipulation, Event Handling, Animation, Ajax), CSS Grid & Flexbox (Template Styling), Bootstrap (Web Framework) | WORK EXPERIENCE 2018-Present  **Data Science Instructor**  ***Rutgers School of Continuing Studies***   * Lead lectures and educational programming activities * Create a positive, motivated, and supportive learning environment * Provide actionable insights and expertise to turn data into actionable recommendations * Provide instruction in multiple domains ranging from Python, SQL and No-SQL Databases, Javascript, HTML/CSS, API Interactions, Social Media Mining, Hadoop, Tableau, ML, and R.   2018-2019  **Football Analyst**  ***Worcester Polytechnic Institute***   * Developed intricate algorithms based on deep-dive statistical analysis. * Analyze complex data sets using advanced querying, visualization and analytics tools. * Identified, measured and recommended improvement strategies for KPIs across all team performance areas.   2014-2018  **Technology Teacher**  ***Passaic City Gifted and Talented Academy***   * Utilized student data to provide individual instruction on gathering, parsing, and implementing student data for accommodations. * Provide students with visual and tactile learning opportunities through use of Interactive Whiteboards * Use communication software, like ClassDojo, to facilitate open communication with parents * Led in teacher workshops/private instructions on logging student achievement into software like Google Sheets, Powerschool, and Gradebook.  PROJECT EXPERIENCE 2018- June  **Project Alpha Quake***(Earthquake location app)*  ***Chief of Data Visualization & Creativity***   * Led in decisions regarding & created:   + Data from USGS and evaluate implementation of GeoJson in visualizations.   + Prototype all features of the life-cycle of the application construction.   + Construct custom visualizations using multiple JS Framework and Libraries.   + Delegated roles, duties, and deadlines to team for role within project.   + [Created the Presentation Slideshow](https://www.powtoon.com/c/b0VhNl5Sc1t/1/m)   2018- April  **NFL Analysis: Deep Dive into the best and worst teams** *(Python correlation analysis)*  ***Chief of Data Visualization & Creativity***   * Led in decisions regarding & created:   + Visualize data & correlations with matplotlib (Python)   + Construct & Sort Data Frames (Pandas)   + Delegated roles, duties, and deadlines to team for role within project.   + API & Web Scrape NFL Data   + Created the presentation slideshow   2018- April  **PyMongo & Web Scrape**   * Web Application for scraping Space Data   + Use of Beautiful Soup & Browser Library   + Sorted into lists, dictionaries and DataFrames   + Connected to MongoDB through Flask  EDUCATION Graduation Date: July 2018  Rutgers Data Science Continuing Studies: Rutgers University  Graduation Date: May 2013  Bachelor of Arts- Elementary Education (B.A.): Kean University CERTIFICATIONS  * Python for Data Science Essential Training (Lynda) * MongoDB (Lynda) * HTML Essential Training (Lynda) CSS Essential Training (Lynda) * JS Essential Training (Lynda) * D3 Visualizations (Lynda) |