**Michael Diaz**

**Football Operations Data Scientist & Scout**

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| SUMMARY Football Data Scientist with a background in Coaching, Recruiting, and Team evaluations, who is eager to combine passion for football with analytical strategies to develop and provide a championship-caliber roster. Collaborative team player with excellent communication skills, superior work ethic, and relentless desire to learn and grow within the ever-changing field of Data Science. 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, JSjQuery (DOM Manipulation, Event Handling, Animation, Ajax), CSS Grid & Flexbox (Template Styling), Bootstrap (Web Framework) | WORK EXPERIENCE 2018  **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.   2017 -2018  **Wide Receiver/Special Teams Coach**  ***William Paterson University***   * Lead on generating team statistics/tendencies using Hudl * Inputted weekly scouting assessments in team Hudl Database * Extracted useable statistics to create meaningful Gameday visualizations * Built playbook install, created 2D play visuals and attached in-game Video packages on Hudl Database for offense.   2016-2017  **Linebacker/Special Teams Coach**  ***Fairleigh Dickinson University***   * Charted offensive scouting tendencies of opponents into Hudl * Generate daily and weekly self-scouting charts and spreadsheets of practice and gameday data * Assisted in building strength/speed program and recorded player measurable gains/losses into spreadsheet * Implemented use of Interactive Whiteboards and tablets to examine scouting and playbook visualizations for players  PROJECT EXPERIENCE 2018- April  **NFL Correlations**  ***Chief of Data Visualization & Creativity***   * Led in decisions regarding & created:   + Visualization libraries and types   + Features   + Tooltips   + Presentation   2018- June  **Project Alpha Quake**  ***Chief of Data Visualization & Creativity***   * Led in decisions regarding & created:   + Visualization libraries and types   + Features   + Tooltips   + Presentation  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) ADDITIONAL EXPERIENCE 2014-2018  **Elementary/Technology Teacher**  ***Passaic City School District***   * Led in teacher workshops/private instructions on logging student achievement into software like Google Sheets, Powerschool, and Gradebook. * Provided individual instruction on gathering, parsing, and implementing student data. * Utilized student data to structure individual accommodations |