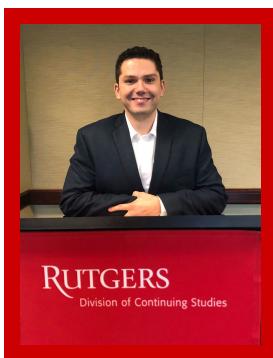
# MICHAEL DIAZ

## DATA SCIENTIST & EVERYTHING DEVELOPER



#### **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 SKILLS

# Data Analysis, Statistical Modeling, Machine Learning

Python, Javascript (Object-Oriented Programming Languages) Scikit-learn (Machine Learning), Pandas (Data Frames), Matplotlib & Seaborn & Plotly & D3 & Leaflet & Mapbox

#### PROJECT EXPERIENCE

2018-June

#### Project Alpha Quake Chief of Data Visualization & Creativity

- ➤ Led in decisions regarding & created:
  - Visualization libraries and types
  - o Features
  - Tooltips
  - Presentation

2018- April

#### **NFL Correlations**

#### Chief of Data Visualization & Creativity

- Led in decisions regarding & created:
  - Visualization libraries and types
  - o Features
  - Tooltips
  - Presentation

2018- April

#### PyMongo & Web Scrape

- Web Application for scraping Space Data
  - Use of Beautiful Soup & Browser Library
  - Sorted into lists, dictionaries and DataFrames
  - o 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)

#### **WORK EXPERIENCE**

2014-Present

#### **Technology Teacher**

#### Passaic City Gifted and Talented Academy

Utilized student data to provide individual instruction on gathering, parsing, and implementing student data for (2D Visualizations), Flask (Web Framework), Beautiful Soup (Web Scraping), Requests (API), Flexbox, CSS Grid

# Business Intelligence Platforms

#### Excel, Tableau

Fast querying, sorting, reporting and powerful visualizations of Data.

#### **Databases**

#### MongoDB, MySQL

Distributed & Relational Databases. Collect, store, protect, and retrieve sensitive data.

#### **Front-End Development**

#### Big Three HTML, CSS, JS

jQuery (DOM Manipulation, Event Handling, Animation, Ajax), CSS Grid & Flexbox (Template Styling), Bootstrap (Web Framework)

- 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 on student progress.
- Led in teacher workshops/private instructions on logging student achievement into software like Google Sheets, Powerschool, and Gradebook.

#### 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

#### 2014-2016

### Offensive Line/Defensive Line/Special Teams Coach Passaic High School

- Designed modified playbook installation and a visual playbook for incoming players and logged into Hudl Database
- ➤ Installed playbook for Freshman and JV players
- Generate and visualize tendencies of weekly opponents