Dear Hiring Committee,

As a sports predictor with a B.S. in Data Science and Analytics, I am interested in working for the Guardians as a Baseball Operations Analyst. With my creativity and programming skills in R, SQL, and Python, I am confident I can be a beneficial team member.

In Data and Information Management, I used SQL Server to build cubes and learned how to use SQL statements to create and populate dimension tables and fact tables. I also used Databricks, PowerBI, Apache Spark, and created pivot tables in Excel. In Database Management, I used Oracle to create a database and to write a variety of queries for many different tasks. In Data Visualization, I used ggplot and gganimate, and I made animated graphs and map graphs. I used R to run regression techniques, look at correlation coefficients, and run ANOVA in my Applied Stats class. In Machine Learning, I used Natural Language Processing techniques and a variety of ML techniques, and I learned about ETL. I also implemented object-oriented programming in Software Development 1.

As a sports predictor, I have gathered relevant data and built and refined predictive machine learning models to forecast the outcomes of the playoffs of major sports. I used DataRobot to successfully predict the 2022 World Series Winner, 2023 NBA finals winner, and all eight of the first-round winners of the 2023 NBA playoffs. Using scikit-learn, I predicted the 2024 World Series winner and teams, 2023 college football champion and 2024 NBA Finals winner. I was only off .001 for the Rangers' RA/Batter and .004 for the Diamondbacks’ RA/Batter in the 2023 MLB playoffs. My predictions are publicly available on X (see @conord282) and my code is on GitHub (see ConorD28). Also, once hired, I could share stats I have found to be important for playoff success with the front office.

My background shows my robust commitment to both analytics and sports. I was vice president of Marist’s Sports Analytics Club, and before becoming vice president, I created scouting reports for the Marist College baseball team using Synergy. I also learned directly from Ari Kaplan, the creator of the Cubs analytics department, through a Baseball Analytics course offered by Sports Management Worldwide, and I conducted interviews with people in the sports industry, including Dan Evans, the former GM of the Dodgers. I have also done a lot of group work at Marist and even got a 100% on 2 group projects, including my Capstone project.

I am eager to bring my analytical skills, work ethic, and competitiveness to the Guardians. I am confident that my experience and dedication would make me an asset to your organization. Thank you for taking the time to consider my application.

Sincerely,

Conor Desmond