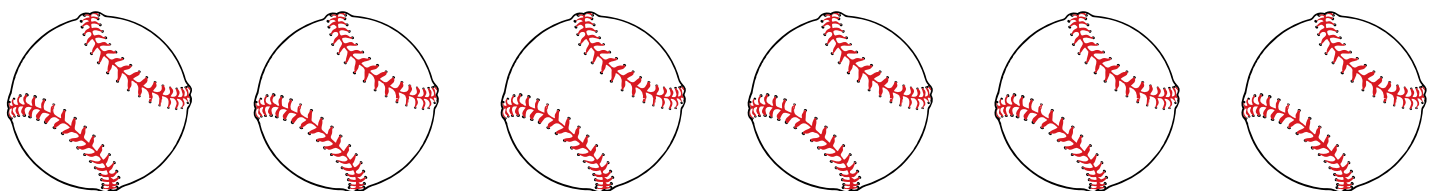# Coding for Major League Baseball

Eli grew up loving sports and doing well in math, but never considered how they might be able to work together. In 8th grade, he saw the movie Moneyball, which is about how the Oakland A's used data to put together a winning team as inexpensively as possible using statistics to decide who is a good fit for the team. Since this movie inspired him, he has been excited to work in the field of **Sports Analytics,** which is the work of **using data and numbers to solve problems.**

He is now an **Analytics Fellow** with the Baltimore Orioles, a major league baseball team in Maryland. A big part of his job is first to know a lot about the sport, and then **ask the right questions** about what the team needs in order to win. After that, a lot of coding is needed to sort through the huge amounts of **numbers that will help answer those questions.**

Coding for Major League Baseball

Throughout his research, Eli has coded analytics to answer a lot of different questions, using languages such as **R, Python, and MATLAB.** He programmed a way to take a lot of different scheduling needs and create the best season schedule. Another project was to create a program that sorted through data from base-running situations to determine the best strategy to use when a runner starts on second base during an extra inning. Eli also created a program that helps determine when pitchers are rested enough to pitch again.

There are a lot of opportunities in Sports Analytics because there is **so much data, or information,** in sports. Eli encourages students to come up with an exciting question and then think about **what kind of information will help them answer it!**