

CSE 412 Final Report Phase 3 G78

Pradyoth Velagapudi, McTyler Tong, Leo Tran, Kerry Zhuo

FINAL PRESENTATION

Link to video: <https://youtu.be/nJnaBG0jcNI>

GITHUB REPO

https://github.com/PradyothVelagapudi/CSE412_DBacksStats

USER MANUAL

Players Page

Initializing the app will take the user to the default page, which is the players list. This is the full roster list of all the Diamondbacks players for the 2024-2025 season.

Arizona Diamondbacks Players

2024-25 Season

[View Hitters Stats](#)

[View Pitchers Stats](#)

Filter by Position:

All Positions

[Apply](#)

[Default Sort](#)

PLAYER NUMBER ▼	NAME	POSITION	BAT/THROW	AGE
1	Jorge Barrosa	LF	BL	23
2	Geraldo Perdomo	SS	BR	24
3	Joc Pederson	DH	LL	32
5	Alek Thomas	CF	LL	24
7	Corbin Carroll	CF	LL	24
9	Blaze Alexander	SS	RR	25
10	Jordan Lawlar	SS	RR	22
11	Jose Herrera	C	BR	27

By default, players are sorted by jersey number in increasing order. However, you can click on any column header to sort the table in increasing order by that value. Clicking again will sort the table in decreasing order by that value. For example, clicking on “Name” will initiate an alphabet sort.

PLAYER NUMBER ▼	NAME	POSITION	BAT/THROW	AGE
1	Jorge Barrosa	LF	BL	23
2	Geraldo Perdomo	SS	BR	24
3	Joc Pederson	DH	LL	32
5	Alek Thomas	CF	LL	24
7	Corbin Carroll	CF	LL	24
9	Blaze Alexander	SS	RR	25
10	Jordan Lawlar	SS	RR	22
11	Jose Herrera	C	BR	27
42	Lawrence Guyton	LF	RR	24

PLAYER NUMBER	NAME ▼	POSITION	BAT/THROW	AGE
33	A.J. Puk	RP	LL	29
25	Adrian Del Castillo	C	RL	25
5	Alek Thomas	CF	LL	24
48	Blake Walston	SP	LL	23
9	Blaze Alexander	SS	RR	25
56	Brandon Hughes	RP	BL	28
32	Brandon Pfaadt	SP	RR	25
53	Christian Walker	1B	RR	33
7	Corbin Carroll	CF	LL	24

PLAYER NUMBER	NAME ▲	POSITION	BAT/THROW	AGE
23	Zac Gallen	SP	RR	29
45	Yilber Diaz	SP	RR	24
47	Tommy Henry	SP	LL	27
43	Slade Cecconi	SP	RR	25
30	Scott McGough	RP	RR	34
19	Ryne Nelson	SP	RR	26
81	Ryan Thompson	RP	RR	32
15	Randal Grichuk	RF	RR	33
26	Davin Smith	LF	LL	28

Click on the “Default Sort” button in the top right to get back to the default sort method.

Default Sort

PLAYER NUMBER ▼	NAME	POSITION	BAT/THROW	AGE
1	Jorge Barrosa	LF	BL	23
2	Geraldo Perdomo	SS	BR	24
3	Joaquín Benítez	RF	BL	23

To filter players by position, select a position from the “Filter by Position” dropdown and click “Apply.” The resulting view will only show players who are listed under that position on the roster.

Filter by Position:

All Positions					
All Positions					
DH					
SP					
LF					
CF					
RF					
2B					
1B					
3B					
SS					
C					
RP					
9	Blaze Alexander	SS	RR	25	
10	Jordan Lawlar	SS	RR	22	

Filter by Position:

SP					
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Apply

PLAYER NUMBER ▼	NAME	POSITION	BAT/THROW	AGE
19	Ryne Nelson	SP	RR	26
23	Zac Gallen	SP	RR	29
29	Merrill Kelly	SP	RR	35
32	Brandon Pfaadt	SP	RR	25
43	Slade Cecconi	SP	RR	25
45	Yilber Diaz	SP	RR	24
47	Tommy Henry	SP	LL	27
48	Blake Walston	SP	LL	23
52	Jordan Montgomery	SP	LL	31
57	Eduardo Rodriguez	SP	LL	31
64	Cristian Mena	SP	RR	21

Player Details Pages

Clicking on a player's name on the Players page takes you to a dedicated Player Details page displaying that player's personal information.

PLAYER NUMBER ▼	NAME	POSITION	BAT/THROW	AGE
1	Jorge Barrosa	LF	BL	23
2	Geraldo Perdomo	SS	BR	24
3	Joc Pederson	DH	LL	32
5	Alek Thomas	CF	LL	24
7	Corbin Carroll	CF	LL	24
9	Blaze Alexander	SS	RR	25
10	Jordan Lawlar	SS	RR	22

Player Details

Name: Corbin Carroll

Position: CF

Number: 7

Bat/Throw: LL

Age: 24

[Back to Players](#)

Clicking the “Back to Players” button takes you back to the Players page.

Hitters and Pitchers Stats Pages

Clicking on “View Hitters Stats” or “View Pitchers Stats” at the top of the page will take you to the statistics pages for hitters and pitchers, respectively.

Arizona Diamondbacks Players

2024-25 Season

[View Hitters Stats](#)

[View Pitchers Stats](#)

Filter by Position:

All Positions

Apply

Arizona Diamondbacks Hitters Stats

2024-25 Season

[View Players](#)

[View Pitchers Stats](#)

Default Sort

PLAYER NUMBER ▼	NAME	POSITION	GAMES PLAYED	AT BATS	RUNS	DOUBLES	TRIPLES	HOME RUNS	RBI'S	WALKS	STRIKEOUTS	STOLEN BASES	CAUGHT STEALING	BATTING AVERAGE	ON-BASE %	SLUG %
11	Jose Herrera	LF	8	17	3	0	0	0	2	1	4	0	0	0.176	0.176	0.25

Arizona Diamondbacks Pitchers Stats

2024-25 Season

[View Players](#)

[View Hitters Stats](#)

Default Sort

PLAYER NUMBER ▼	NAME	WINS	LOSSES	ERA	GAMES PLAYED	GAMES STARTED	INNINGS PITCHED	HITS ALLOWED	RUNS ALLOWED	EARNED RUNS	HOME RUNS ALLOWED	WALKS	STRIKEOUTS	WHIP
19	Ryne Nelson	8	8	4.71	28	26	150.2	159	79	79	23	50	104	1.24

You can return to the Players page at any time by clicking “View Players.”

On each stat page, you can peruse the whole-season statistics for the main hitters and pitchers on the Diamondbacks for the 2024-25 MLB season.

To sort the list by any stat in increasing order, simply click on the name of the stat. Click again to sort in decreasing order. Click “Default Sort” in the top right to return to the default order. For example, here are screenshots showing how it would look to sort by “ERA” on the Pitchers Stats page.

Default Sort

PLAYER NUMBER	NAME	WINS	LOSSES	ERA ▼	GAMES PLAYED	GAMES STARTED	INNINGS PITCHED	HITS ALLOWED	RUNS ALLOWED	EARNED RUNS	HOME RUNS ALLOWED	WALKS	STRIKEOUTS	WHIP
23	Zac Gallen	17	5	3.15	28	28	148.0	133	54	54	24	54	156	1.03
29	Merrill Kelly	5	1	3.29	13	13	73.2	67	33	33	11	18	73	1.20
20	Justin Verlander	18	4	3.10	27	27	150.0	120	48	48	20	50	140	1.00

Default Sort

PLAYER NUMBER	NAME	WINS	LOSSES	ERA ▲	GAMES PLAYED	GAMES STARTED	INNINGS PITCHED	HITS ALLOWED	RUNS ALLOWED	EARNED RUNS	HOME RUNS ALLOWED	WALKS	STRIKEOUTS	WHIP
52	Jordan Montgomery	11	7	5.46	25	25	117.0	149	71	71	14	25	83	1.64
81	Ryan Thompson	1	3	5.04	44	0	59.1	56	28	28	8	19	47	1.43
10	Shane Bieber	16	4	3.29	28	28	150.0	108	44	44	11	47	117	1.00

Default Sort

PLAYER NUMBER ▼	NAME	WINS	LOSSES	ERA	GAMES PLAYED	GAMES STARTED	INNINGS PITCHED	HITS ALLOWED	RUNS ALLOWED	EARNED RUNS	HOME RUNS ALLOWED	WALKS	STRIKEOUTS	WHIP
19	Ryne Nelson	8	8	4.71	28	26	150.2	159	79	79	23	50	104	1.24
23	Zac Gallen	17	5	3.15	28	28	148.0	133	54	54	24	54	156	1.03
29	Merrill Kelly	5	1	3.29	13	13	73.2	67	33	33	11	18	73	1.20

INDIVIDUAL CONTRIBUTIONS

McTyler: Responsible for coding the pitchers_stats.html, hitters_stats.html, players_info.html, and players_detail.html files. Implemented a user-friendly interface by having a table instead of a list to show the statistics. In the views.py, urls.py, I added different paths to each separate page. Responsible for displaying all the statistics and using the player_pid from the players, hitter, and pitcher tables in order to grab the player’s name and jersey number (which were only stored in the players table). Helped everyone with Git issues, pushing/pulling code to and from the repo. Helped grab data from the ESPN data and figure out what the correct queries were to insert data into the database. Contributed to the presentation of the video.

Kerry: Discovered that the public ESPN data API that was originally intended to be integrated no longer exists, helped harvest data from ESPN webpage for database as alternative to using the API. Debugged issues with SQL requests and database updates. Contributed to the presentation of the video.

Prad: Helped design initial schema and project requirements. Created database in pgAdmin and set up Django project. Connected web app to PostgreSQL backend. Identified dependencies and got the web app running on all members’ machines. Created Github. Contributed to the presentation of the video.

Leo: Helped implement and create the basic structure of sorting from ascending to descending. Coded the beginning stages of the sorting function and ran ideas through the team. Basic

debugging and modifications with the implementation of sort and display. Contributed to the presentation of the video.