Diego Osborn

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EXPERIENCE

Baseball Analytics Intern | *UC San Diego Baseball* — Feb 2023 – Present
- Automated previously time-consuming opponent scouting report process to enhance game preparation and save coaches and staff hundreds of hours of manual work every season.
- Involved in player development and analytics with the development of pitch classification, pitch quality (Stuff+), pitch sequencing, and expected models (xERA, xFIP, xwOBA).
- Generated post-game pitching report graphics summarizing each pitch type's metrics (e.g., velo and movement profiles) and visualizing pitch locations/break patterns to help coaches identify areas for improvement.
- 2023 NCAA Division-1 Baseball Big West Conference Championship.

Data Analytics Intern | *UC San Diego Career Center* — Sep 2024 – Jun 2025
- Performed EDA and cleaning on career outcomes data for 12,000+ graduates to support the development of an interactive Power BI dashboard–highlighting insights on salary trends, industries, and top employers for student career planning
- Built a PostgreSQL database to store and query 100,000+ Handshake accounts; categorized alumni by graduation year and degree type, and facilitated the archival of alumni accounts for improved data organization and historical tracking

Baseball Analytics Intern | *Palm Springs Power Baseball* — Jun 2023 – Jul 2023
- Developed an interactive Looker dashboard with visualizations to assist players and coaches in evaluating pitch effectiveness and batted ball metrics by analyzing live in-game pitch data from FlightScope

EDUCATION

University of California, San Diego — Sep 2022 - Jun 2026
B.S. Data Science; Minors: Economics, Mathematics

Relevant Coursework: ML, Probabilistic Modeling, Relational Databases, Statistical Methods, Probability Theory, Optimization Methods for Data Science, Systems for Scalable Analytics, Deep Learning
Honors: UCSD Eleanor Roosevelt College Honors Program, Provost Honors (3x)
Organizations: Triton Ball Sports Analytics Club

PROJECTS

The Effect of Two Strikes on a Hitter's Swing | *JavaScript, d3.JS, HTML, CSS, Python* — May 2025–Jun 2025
- An interactive website that uses Baseball Savant's new swing angles—attack angle, attack direction, swing path (tilt)—to explore how hitters are adjusting their swing in two-strike counts, featuring league trends, an in-depth analysis on Yordan Alvarez's 2024 season, and a 3D sandbox to visualize the swing changes of every qualified 2024 hitter.

Spotify Popularity Analysis | *Python, Statsmodels, Matplotlib, Seaborn* — Feb 2025-Mar 2025
- Performed EDA on 100,000+ Spotify tracks to identify key audio features linked to song popularity.

SKILLS

Programming & Scripting Languages: Python, SQL, Java, JavaScript, HTML, CSS, LaTeX
Libraries & Tools: Pandas, NumPy, PyTorch, scikit-learn, Statsmodels, SciPy, Matplotlib, Seaborn, Plotly, d3.js, Psycopg2
Databases & BI: PostgreSQL, SQLite, Tableau, Power BI, Looker
Spoken Languages: English, Spanish

AWARDS

Nanar and Anthony Yoseloff Foundation Scholarship — Jan 2025
Issued by Society for American Baseball Research (SABR)

I am grateful to say that I was selected to receive one of four nationwide Nanar and Anthony Yoseloff Foundation Scholarships to attend the 2025 SABR Analytics Conference.