Blair Warren

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EDUCATION

University of California, Los Angeles — Los Angeles, CA
Bachelor of Science in Statistics and Data Science — *Sept. 2022 – May 2026*

- **Relevant Coursework:** Statistics: (Linear Models, Mathematical Statistics, Probability Theory, Optimization, Computational Statistics, Statistical Programming/ Analysis in R) Math: (Linear Algebra, Multi-Variable Calculus, Differential Equations, Integration and Infinite Series) Computer Science: (C++ Data Structures and Algorithms)
- **Extracurriculars:** Data Analyst/ Journalist at Bruin Sports Analytics, UCLA Statistics Club, ACM Hack, Intramural Soccer/ Basketball

EXPERIENCE

Quantitative Analyst Intern — May 2025 – Aug. 2025
PNC Bank — *Pittsburgh, PA*

- Built a dynamic rolling correlations framework in Python using sliding windows and correlation matrices to track time-varying relationships between industries and sectors, enhancing credit risk signal detection and portfolio monitoring
- Assembled a dynamic Python framework for PNC's multibillion-dollar commercial loan portfolio, merging historical data and concordance mappings to produce real-time CI-level exposure and risk metrics for credit concentration analysis, risk metrics, and a simple data dictionary with column-level lineage for reuse.
- Automated customer data issue detection using PySpark, replacing manual processes and enabling scalable remediation with real-time Tableau reporting across 28M+ customer records

Artificial Intelligence Engineer/ Operations Intern — Apr. 2024 – Apr. 2025
Sparrow Golf — *Los Angeles, CA*

- Enhanced AI algorithms in Python using thePipe and MongoDB APIs, improving motion and language tracking accuracy for golf swing analysis by 15% based on standardized testing datasets
- Implemented seamless integration with the Google Docs API and automated data pipelines, streamlining user feedback delivery on golf swings and reducing feedback time
- Performed statistical analysis and applied machine learning models to large datasets, identifying key performance indicators and optimizing predictive accuracy for data-driven decision-making

Data Analyst Intern — Apr. 2023 – July 2023
Cirque Analytics — *Los Angeles, CA*

- Conducted comprehensive data clezaning and validation for millions of entries, enhancing the reliability of legal analyses across over 2,000,000 case records
- Mastered programming in Stata, R, and Excel, to manage and analyze extensive data sets related to civil lawsuits and other litigations
- Applied advanced analytical techniques to support strategic decision-making in complex litigation cases, improving the precision of legal strategies in analyzing thousands of data points per case

PROJECTS

U-Know-Uno | *Python, Streamlit* — July 2025 – Oct. 2025

- Built an Uno solver that recommends the highest-probability winning move, achieving up to 8,192 simulations per decision by ensembling Monte Carlo rollouts across multiple determinized decks and surfacing confidence intervals in Streamlit.
- Engineered a modular engine-to-ML pipeline for the solver, delivering seed-insensitive, real-time recommendations and a fixed 54-action space by separating a rules engine, a rollout oracle, and a tested UI with editable packaging

Big 10 Transition Analysis | *Python, PostgreSQL, Visual Crossing API, Meteostat API* — May 2024 – Sept. 2024

- Analyzed large sports datasets using complex SQL queries and Python scripts to identify key performance indicators for UCLA, USC, Washington, and Oregon's transition to the Big 10
- Incorporated weather and distance data from APIs to assess team performance under varying conditions

TECHNICAL SKILLS

Languages: Python, C++, SQL, R, Stata, Excel, Java
Developer Tools/ Platforms: Git, Visual Studio, AWS (S3, Lambda), PySpark, Streamlit, Oracle SQL Developer
Libraries: Pandas, NumPy, Matplotlib, Seaborn, Scikit-Learn, TensorFlow, PySimpleGUI