

# Kyle Weiner

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## Education

**University of Florida**

Gainesville, FL | Expected Graduation: May 2026

**B.S. in Data Science**

GPA: 3.5

Relevant Coursework: Regression Analysis, Intro to Probability, Linear Algebra for Data Science, Data Structures and Algorithms, Discrete Structures, Programming with Data in R, Computational Math | Certificate: AI Fundamentals

## Skills

**Programming:** Python, SQL, R, C/C++

**Machine Learning:** Scikit-Learn, XGBoost, Pandas, NumPy, Matplotlib, PyTorch, TensorFlow, Keras

**Data Tools:** Tableau, Power BI, MATLAB, RStudio, Jupyter, Google Cloud (GCP)

**Development:** Git, Unix/Linux, Jira, Docker, Agile, Unit Testing

## Experience

**Walmart | Data Science Intern**

May 2025 – August 2025

- Developed a multi-model regression ensemble (XGBoost, Random Forest, Extra Trees, LightGBM, Prophet, ARIMA) to optimize outbound shipments from Consolidation Centers to Distribution Centers. Achieving over 85% accuracy and beating the production time-series model by 3%.
- Cleaned and integrated item and routing data in SQL, applying confidence intervals and variance analysis to design four demand signal methods that improved accuracy and fed into the ensemble model.
- Projected up to \$1M ARR savings by integrating my new model into the transportation workflow. Streamlining ~15,000 weekly load forecasts which will cut empty miles and reduce cost variance.
- Collaborated with the data science team in a Jira-driven Agile environment, contributing to sprint planning, daily stand-ups, and delivering project milestones.

**University of Florida Statistics Department | Teaching Assistant**

Aug 2024 – Present

- Supported 500+ students in advanced statistics coursework, reinforcing concepts such as regression, chi-square tests, and ANOVA through office hours and review sessions.
- Collaborated with professors to develop exam materials and assignments that emphasize practical applications of statistical concepts, enhancing students' understanding and engagement.

**Nettles Lab at UF Scripps Institute | Research Assistant**

Jan 2025 – June 2025

- Developed and optimized a self-supervised autoencoder pipeline to analyze hormone-sensitive cancer datasets, applying dimensionality reduction and clustering to uncover treatment-response patterns.
- Enhanced model reliability by implementing data preprocessing (normalization, decorrelation) and cross-validation, improving overall predictive accuracy across multiple datasets.
- Conducted statistical and machine learning analysis on steroid hormone receptor structures, identifying links between receptor signaling and drug effectiveness that helped ongoing research.

**UF Health Outcomes and Biomedical Informatics | Research Assistant**

Feb. 2024 – May 2025

- Collaborated with Dr. Dominick Lemas to apply crystallization analysis and experimental peptide datasets in training a Convolutional Neural Network, achieving performance comparable to AlphaFold in protein-peptide binding site prediction.
- Designed a neural network using PyTorch to detect hypertensive disorders in pregnant women early, using EHR data to achieve an accuracy of over 96.5%, forming the foundation of an upcoming research publication.
- Analyzed 600,000+ electronic health records (EHR) to study the impact of obesity and hypertension in maternal health, building a structured data dictionary that streamlined downstream machine learning model development and clinical research.

## Projects

**Tampa Bay Rays – Pitching Research** (SQL, Python, Modeling, Power BI)

Aug 2025 - Present

- Collaborating with the Rays to analyze pitcher performance consistency, extending analysis to all MLB teams.
- Created a custom consistency metric and used it to build an ensemble model with dynamically weighted variables (pitch location, velocity, outcomes, etc.) to help identify the most reliable pitcher for specific in-game situations.

**Jason's Journey** (Python, Pygame, PyWFC)

Aug 2023 - Dec 2023

- Developed a roguelike game in Pygame with procedurally generated levels, AI-driven enemy interactions, diverse enemies, interactive items, and boss battles, using math and physics principles to create the movement and gameplay mechanics.
- Applied probability, statistics, and simulation techniques to design randomized enemy behavior and item interactions that mimic real-world variability.

## Extracurriculars

**Data Science and Informatics Club | Workshop Coordinator**

Aug 2023 - May 2024

- Organized and taught interactive data science and statistics workshops, giving 400+ members practical, applied learning experiences.
- Helped coordinate DataFest, UF's annual data science hackathon where teams analyze a complex dataset. I contributed to organizing the event and was on the team that won Best Presentation in 2024.