Rafael Condé Gomes

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EDUCATION

University of South Florida — **Tampa, FL**
B.S in Econometrics & Quantitative Economics — *May, 2026*
B.S Data Science & Analytics — *May, 2026*

- 3.89/4.00.
- Relevant Coursework: Econometrics, Time Series & Forecasting, Adv. Statistics and Analysis, Obj. Oriented Programming, Adv. Macroeconomics, Adv. Price Theory, Intro to Data/ Text Mining.

EXPERIENCE

Global Investment Research Associate (Macroeconomics Team) — **Tampa, FL**
Investment Club at USF — *January 2025 – June 2025*

- Synthesized macro-data (Bloomberg/FRED) to produce bi-weekly research reports, analyzing key indicators (inflation, yield curves) to guide portfolio allocation for 50+ members.
- Presented actionable fixed-income strategies to the Investment Committee, resulting in data-driven adjustments to the club's paper trading portfolio

Tutor — **Tampa, FL**
University of South Florida Athletics — *November 2024 – December 2025*

- Delivered advanced academic support in Calculus, Statistics, and Economics to 30+ Division I athletes, maintaining high eligibility standards for the university.
- Achieved a 90% confidence improvement rate by restructuring complex quantitative concepts into personalized learning frameworks for high-performance students.

Technology Director — **Tampa, FL**
Hexa Consulting Junior Enterprise at USF — *August 2024 – August 2025*

- Directed digital infrastructure initiatives, increasing club engagement by 30% through the implementation of SEO best practices and web performance optimization.
- Spearheaded 5+ technical consulting workshops, educating 50+ students on industry trends and practical digital skills.

PROJECTS

Credit Risk & Anomaly Detection | *Python, scikit-learn, pandas, Pandas, SHAP* — *May 2025 – June 2025*

- Engineered a profit-maximization credit scoring system on 9,500+ loan records, replacing naive accuracy metrics with a financial loss function to optimize portfolio ROI.
- Quantified a projected ~40% ROI lift ($1.26M value) by implementing a "Strategy Curve" simulation that rejects the riskiest 17.3% of applicants while maintaining portfolio volume.
- Optimized XGBoost and Logistic Regression models (AUC 0.685) via RandomizedSearchCV and custom Scikit-Learn pipelines to strictly prevent data leakage and ensure production-readiness.

Undergraduate Research – Econometrics Project | *R* — *Fall 2024*

- Achieved a Constructed a reproducible data pipeline to clean and merge 43,000+ records from disparate sources (BLS & IPUMS), mapping SOC codes into 8 distinct industrial sectors for granular analysis.
- Modeled wage disparities using multiple regression, isolating a 7–11% ROI on education while statistically controlling for industry, gender, and experience variables.
- Synthesized findings into a 10+ page research paper, standardizing the interpretation of regression coefficients to defend economic conclusions against non-technical counter-arguments.

Neural Network for Tennis Match Forecasting | *Python, PyTorch, scikit-learn* — *Summer 2025*

- Engineered a predictive deep learning pipeline to model non-linear performance trends across 90,000+ matches.
- Achieved 64.2% accuracy (surpassing ranking-based baselines by 2.2%) by training an LSTM neural network on sequential player data.
- Optimized model hyperparameters using Optuna to minimize loss and identify key performance signals in noisy datasets..

SKILLS & INTERESTS

Technical Skills: Python (pandas, numpy, scikit-learn, PyTorch), R (dplyr, ggplot2), PowerPoint, Excel, SQL.
Languages: Portuguese (Fluent), English (Fluent), Spanish (conversational).
Interests: tennis, soccer, literature, traveling, books by Nassim Taleb.