

# Justin Castillo

Data Science • Data Analysis • Software Engineering Intern

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## EDUCATION

Florida International University (Remote) — B.S. in Computer Science

Expected Dec 2026 • GPA: 3.61

University of Central Florida — B.A. in Film

2012 – 2016

Selected Coursework: Data Structures & Algorithms, Database Management, Systems Programming, Operating Systems, Software Engineering I, Computer Architecture, Software Testing, Discrete Structures, Intro to Data Mining, Advanced Database Management, Artificial Intelligence (in-progress)

## TECHNICAL SKILLS

Programming: Python, Java, C, SQL

Libraries: pandas, NumPy, scikit-learn, XGBoost, LightGBM, CatBoost, TensorFlow/Keras, SHAP, Optuna, matplotlib

Data: EDA, feature engineering, cross-validation, class-imbalance handling, probability calibration

Domains: NLP (transformers), time-series forecasting, credit scoring, HR analytics

Tools: Git/GitHub, Docker, FastAPI, Tableau, Jupyter, Linux, Conda, pre-commit/black/ruff, GitHub Actions

## SELECTED PROJECTS

Twitter Airline Sentiment — DistilBERT & TF-IDF

- Built two production-ready models to route customer-care tweets; DistilBERT test  $\approx 0.84$  accuracy /  $\approx 0.79$  macro-F1.
- Shipped a CLI and FastAPI `/predict`` micro-service; containerized with Docker and automated CI on GitHub Actions.
- Includes confidence-based operating policy; live demo detects the mood of a tweet (see portfolio).

Portfolio page & demo | GitHub

HR Attrition (IBM) — Interpretable Risk Scoring

- Leakage-safe pipeline with Logistic Regression + SMOTE; test AUC  $\approx 0.81$  at an F1-optimized threshold.
- Global & local explanations via coefficients and SHAP; Tableau dashboard for stakeholder review.

Portfolio page | Tableau

Rossmann Store Sales — Time-aware XGBoost Forecasts

- Chronological holdout (last 6 weeks) to mirror deployment; test RMSE  $\approx 0.169$ , MAE  $\approx 0.130$ ,  $R^2 \approx 0.833$  (log-scale).
- Engineered promo & calendar features; produced store-day forecasts and a Tableau ops dashboard.

Portfolio page | Tableau

## EXPERIENCE

Behavior Technician — The Stepping Stones Group, LLC (Mar 2025 – Present)

- Capture session data and trends that inform individualized treatment plans.
- Partner with clinicians and families; practice concise documentation and KPI tracking.

Behavior Interventionist — Intercare Therapy (Nov 2023 – Mar 2025)

- Logged detailed behavioral observations; communicated weekly progress to supervisors.

Video Department Manager — Castaldo Studio (Jan 2015 – Nov 2023)

- Managed a small production team; coordinated hundreds of client projects end-to-end.
  - Improved workflows and on-time delivery using light project analytics and dashboards.
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