

# Dante Caraballo

Sugar Land, TX 77479

832.574.5694

[dantecaraballo01@gmail.com](mailto:dantecaraballo01@gmail.com)

[LinkedIn](#)

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## EDUCATION

**University of Maryland, Robert H. Smith School of Business**  
**Master of Science in Information Systems**

**College Park, MD, USA**  
**May 2025**

- Terrapin Scholar
- Relevant Coursework: Data Processing & Analysis in Python, Data Science for Customer Analytics, Data Models & Decisions Using R, Data Mining & Predictive Analytics, Database Management Systems, Designing AI Systems, Harnessing AI for Business, Cloud Computing & Big Data

**University of Maryland, College of Information Studies**  
**Bachelor of Science in Information Science**

**May 2024**

- Dean's List
  - Relevant Coursework: Information Organization, Object Oriented Programming, Database Design and Modeling, User-Centered Design, Data Sources and Manipulation, Tech Infrastructure and Architecture
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## TECHNICAL SKILLS

Python | SQL | HTML & CSS | Javascript | MongoDB | Machine Learning | Tableau | Apache Spark | React | Power BI | Git

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## PROJECT EXPERIENCE

**[ML Automated](#) | Software/Skills: Google Collab, Streamlit, Python (Scikit – learn, XGBoost, SHAP, Transformers), Prompt Engineering**

- Developed a Streamlit app that lets non-coders run end-to-end ML workflows (upload, preprocess, train, evaluate, deploy) from a single UI.
- Parameterized 3 pipeline stages (preprocess, train, deploy) with reusable blocks (encode, scale, split) supporting 2 task types (classification, regression).
- Implemented SHAP feature attributions and an auxiliary ML explainer model that converts SHAP values into plain-English rationales; enabled report export.

**[Poke Project](#) | Software/Skills: VS Code, Python, IpyWidgets, Algorithm Development**

- Built a Jupyter + ipywidgets decision tool with 3 core features: counter-team generation, viability scoring, and move-set recommendations; outputs ranked counter teams.
- Implemented a rules engine over type matchups, team roles, and evolution paths in a reproducible pipeline (ingest, feature extraction, score, recommend) for non-coders.

**[UMD Soccer Database](#) | Software/Skills: VS Code, SQL, Relational Database Design, Data Modeling**

- Designed a normalized schema with 4 entities (games, players, teams, stadiums) and explicit PK/FK constraints; wrote parameterized queries (team, date range, stadium).
- Authored SQL joins and aggregations to answer 3 recurring questions: opponent history, multi-season player affiliations, and stadium utilization for coaching decisions.

**[GOCI Book Banning](#) | Computer: Jupyter, Tableau, Python, Research Skills**

- Built a 5-step Python ETL (ingest, clean, normalize, dedupe, categorize) in pandas with data-quality gates (type checks, NA handling, duplicate detection, schema assertions).
  - Delivered Tableau dashboards across 3 KPI dimensions (state, district, title over time) with multi-select filters and drill-through; added a one-command reproducible refresh script.
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## LEADERSHIP AND VOLUNTEER EXPERIENCE

**University of Maryland, Academic Peer Mentoring**

**January 2023 - May 2023**

- Mentored 25+ students in Python and OOP; hosted weekly office hours and 1:1 sessions; provided code reviews and debugging guidance aligned to course rubrics.
- Coordinated with course staff to triage common issues and standardize feedback, improving response time for student blockers.