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Evan Brown

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PROFILE

Computer science and statistics senior at Rice University skilled in model design/development, linear regression, bootstrapping, linear algebra, and experiment design. Experience in mlflow, TensorFlow, Spark, scikit-learn, XGBoost, Random Forests, AWS/Athena, Databricks, Tableau, Retool, Streamlit, Plotly, and Pandas. Core languages: SQL, Python, R, JavaScript/TypeScript; additional languages: HTML/CSS, C, Go.

EDUCATION

Rice University — Houston, TX | 2022-Current
- Double Major in **Computer Science and Statistics**; minor in **Data Science**; GPA**: 3.77/4.0**
- Course: Data Science – Tools & Models: Data analysis with **SQL**, optimization- and probabilistic-based learning methods, **big data** analytics and programming, **AWS** and storage infrastructure experience.
- Course: Concurrent Program Design: Developed a fully functional messaging web app using **HTML/CSS** and **JavaScript**, along with a **RESTful database** written in **Go** to store the messages.
- Course: Algorithmic Thinking: Performed mathematical reasoning about algorithmic problems, focusing on the **design**, **efficiency**, and **accuracy** of algorithms; explored **search trees**, **hash tables**, and other useful data structures.
- Leadership & Service — Sport Representative; promoted and organized intramurals for residential college, nearly doubling participation.

Evergreen High School — Evergreen, CO | 2018-2022
- **Salutatorian**; GPA: **4.7/4.0**; ACT: **36/36**
- Four-time **Gold Honor Roll** and Academic Letterman — Achieved a 4.25 or higher GPA on the 4.0 scale every year.
- Three-time Varsity Soccer Letterman — Three-year varsity starter, team captain as senior.
- Leadership & Service — **National Honor Society** Officer/Technology Coordinator; managed 100-member chapter.

EXPERIENCE

Business Analytics Intern — New York Islanders | Elmont, NY | 2025-2025
- Designed, built, and optimized a **machine learning model** to predict renewal likelihood for season ticket members, enabling the service team to prioritize high-impact accounts throughout the season.
- Engineered features in an **Azure SQL** database to support model training.
- Developed and evaluated five models in **Databricks**, optimizing **log-loss** for accurate account-level renewal probabilities, helping the service team target key accounts with greater precision.
- Identified an **XGBoost** model, optimized via **Bayesian hyperparameter tuning**, as the best-performing approach, achieving **87% average precision** and **0.41 log-loss** — a **10% increase** in average precision and a **0.15 reduction** in log-loss over a simple baseline logistic regression model.
- Automated weekly prediction refreshes with a **Databricks pipeline** and stored results in **Azure SQL** for analyst use and **Tableau** integration.
- Designed and presented a **Tableau** dashboard for the Service and BI teams, supporting targeted outreach and forecasting.
- Entire project was developed with in an organized and well documented manner to assist in handover.

Data Science Intern — src | ftbl | Houston, TX | 2023-2025
- Built **interactive user interfaces** in **Retool** using **SQL** and **JavaScript**, including performance radars, optimized player searches, and team organization visualizations.
- Delivered tools used by **stakeholders and clients** to guide player and coach signing decisions.
- Served as the primary contact for all **Retool** issues; authored **comprehensive, company-specific documentation** to streamline onboarding and troubleshooting.
- Reported directly to the **C-Suite**, ensuring interfaces were clear and actionable, and aligned with strategic objectives.

Founder — Learn Your Soccer | Evergreen, CO | 2018-2022
- Designed and launched a **website** providing free access to **high-quality soccer coaching materials**.
- Produced, edited, and authored **50+ in-depth videos and articles**, reaching **3,000+ users** in **50+ countries**.