NATHAN GLEN

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Education

University of Florida   **May 2026**
Bachelor of Science, Major in Data Science, Minor in Economics   *Gainesville, FL*
GPA: 3.98

Skills

- **Programming & Analytics Tools:** Python, C++, R, JavaScript, SQL, Tableau, PowerBI, AWS
- **Packages/Frameworks:** Pandas, NumPy, SciPy, Matplotlib, Sqlalchemy, Fastai, PyTorch, Scikit-Learn, OpenCV
- **Certifications:** Photoshop, Illustrator, MOS (Word, PowerPoint, and Excel)

Experience

UMG - Universal Music Group   **May 2025 – Aug 2025**
Data Analytics Intern (Incoming)   *Miami, FL*
- Selected for Summer 2025 internship

Bioinformatics Research   **Dec 2024 – Present**
Research Assistant   *Gainesville, FL*
- Performed **A/B testing using t-tests** to assess how gene count influences the **suitability of canine cancers as comparative models** for human cancer types.
- Utilized **high-performance computing (HPC)** environments to process large-scale genomic datasets.
- Managed an **ETL data pipeline** to clean, transform, and analyze **oncology-focused datasets** for downstream bioinformatics workflows.

Tampa Bay Rays Capstone Course   **Aug 2024 – Dec 2024**
Project Team Member   *Gainesville, FL*
- **Cleaned** and **preprocessed** a dataset with over **100,000 rows** to prepare it for **machine learning** tasks, collaborating with Tampa Bay Rays analysts.
- Obtained a **67% accuracy score** using **XGBoost**, and utilized **SHAP scores** to explain **model predictions** and **pitch characteristics**.
- Developed a **user-friendly web application** utilizing **SHAP values** to highlight influential characteristics, emphasizing **explainability**.

Linguistics Research   **Aug 2024 – Present**
Undergraduate Research Assistant   *Gainesville, FL*
- Conduct in-depth **annotation and analysis** of conversational transcripts (**10+ pages/week**) focused on identifying linguistic markers of **hoarding disorder**.
- Co-developed and iteratively refined **annotation protocols** to ensure linguistic consistency and alignment with project goals.
- Collaborated with NLP researchers to inform the design and training of a **machine learning model** for detecting hoarding-related discourse patterns.

UF Food Product Development Club (FPDC)   **May 2023 – Present**
President & Analyst   *Gainesville, FL*
- Secured **$1,000 in funding** to support club activities and supplies.
- Designed and implemented a **web application** using the **Edamam API** to generate **USDA-compliant nutrition labels**, reducing average label creation time by **67%**.
- Collaborated with team members to conduct **market research** and develop **innovative food products** for **IFT's Smart Snacks Competition**.

Projects

SwampSubleasing   **Jan 2024 – Present**
Co-creator   *Gainesville, FL*
- Created a full-stack website using **Supabase, React, and Next.js** to help students find and sublease apartments.
- Designed and implemented the **database architecture**, including table creation, relationships, and query handling.
- Reached **100+ active users**, facilitating apartment exchanges and driving student engagement on campus.