Nathan Glen

Education

University of Florida **May 2026**
Bachelor of Science, Major in Data Science, Minor in Economics *Gainesville, FL*
- **GPA: 3.99**

Experience

Deutsche Bank **Jul 2026 – Present**
Technology Analyst *Cary, NC*
- Analyzed **GCP resource costs** in **Excel** and presented findings to align the team's understanding of cloud spending.
- Updated **API response ingestion** to support a revised response format and led discussions with the **end-of-day (EOD) test automation team** to align automated tests with expected application behavior.
- Implemented monitoring to identify **CTD notifications stuck in retry**, generating logs and automated email alerts using **Jakarta Mail and SMTP**, reducing average incident detection time by **50%**.

Universal Music Group **Jun 2025 – Aug 2025**
Data Analytics Intern *Miami, FL*
- Delivered **10+ weekly dashboards and visualizations** in response to internal stakeholder requests, leveraging **SQL, BigQuery, Python, Excel, Nielsen and MicroStrategy** to drive data-informed decisions across marketing, A&R, and finance departments.
- Engineered and deployed **automated analytics workflows** using Python, SQL, and GCP, reducing reporting time by **over 90%**, enabling fast and accurate access to critical business insights.

Graim Bioinformatics Lab **Dec 2024 – Present**
Undergraduate 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.
- Achieved **67% accuracy** using **XGBoost** to predict pitch outcomes based on historical physical characteristics, leveraging **SHAP values** to explain model predictions and identify influential features.

UF Food Product Development Club (FPDC) **May 2023 – Present**
President & Analyst *Gainesville, FL*
- Designed and implemented a **web application** using the **Edamam API** to generate **USDA-compliant nutrition labels**, reducing average label creation time by **67%**.
- Conducted **market and consumer analytics** using **Mintel, Google Trends, and Stata** to inform data-driven decisions in the development of innovative food products for **IFT's Smart Snacks Competition**.

Projects

Pickleball Matcher **Oct 2026 – Present**
Co-Creator & Full-Stack Developer *Morrisville, NC*
- Built and deployed a **full-stack PWA** using **Next.js, React, TypeScript, PostgreSQL, and Tailwind CSS** for court management, live scoring, and player leaderboards.
- Developed a **matchmaking algorithm** using **simulated annealing** to balance skill, playing time, and partner variety, alongside an **adaptive Elo system** supporting historical score corrections.
- Implemented **optimistic UI, idempotent operations, and integration tests** to improve responsiveness, prevent duplicate actions, and ensure data consistency.

GatorSubleasing **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.

Skills & Misc

- **Programming & Analytics Tools:** Excel, Python, C++, Java, R, JavaScript, SQL, Tableau, PowerBI, BigQuery, Domo
- **Honors & Awards:** Florida Bright Futures Scholarship Recipient, UF AI Scholar, AT&T Technology Academy, CodePath TIP102