

Jaylen Callahan

Data Engineering Intern

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STRENGTHS

- ✔️ **Data Quality**
Caught schema, null, duplicate, and integrity issues before reporting; that early check became a trusted lab habit.
- 🗣️ **Stakeholder Translation**
Turned sponsor interviews into clear requirements and acceptance criteria; partners gained a workable path from question to delivery.
- ♥️ **Statistical Reasoning**
Used distributions, sampling, confidence intervals, and model checks to explain findings honestly when results needed context.
- ⚙️ **Reliable Delivery**
Built repeatable tests and GitHub Actions reviews for student pipelines; peers gained confidence in each submitted change.
- 👥 **Collaborative Learning**
Shared Python, SQL, and reporting practices through lab reviews and workshops, becoming a practical resource for classmates.

SKILLS

Python SQL Azure Databricks

ETL pipelines Data modeling

Data validation Statistical profiling

Probability Sampling

Confidence intervals Regression

Classification A/B testing

Power BI

SUMMARY

Data Engineering Intern and 2026 computer science graduate with supervised experience building dependable cloud data solutions for academic operations and consumer analytics. Developed Python and SQL **ETL pipelines**, Azure Data Lake workflows, Databricks tables, validation checks, dimensional models, and Power BI reports. Applied probability, sampling, **confidence intervals**, regression, classification, data profiling, and basic A/B testing across hands-on labs and a capstone project. Documented transformations, standards, test evidence, and delivery progress in GitHub while communicating scope, limitations, and findings with faculty sponsors and project partners. Spanish-English communication supports business conversations across functions and cultures. Eager to contribute reliable **data foundations**, thoughtful analysis, and clear execution from day one while learning from experienced engineers and supporting practical **business decisions**.

EDUCATION

Bachelor's Degree in Computer Science

University of Tennessee, Knoxville 🎓 GPA: 3.8 📅 2026 📍 Knoxville, Tennessee

Coursework: Python, SQL, Probability and Statistics, Data Structures, Machine Learning

TECHNICAL SKILLS

- **Programming Languages:** Python, SQL, Jupyter
- **Azure Data Services:** Azure Data Lake, Azure Storage, Azure cloud
- **Databricks Platform:** Databricks notebooks, Delta tables, Spark SQL
- **Data Integration:** ETL pipelines, ingestion jobs, data transformations
- **Data Modeling:** Dimensional modeling, star schemas, source keys
- **Data Quality:** Schema checks, null-rate checks, referential integrity
- **Statistical Analysis:** Probability, sampling, confidence intervals
- **Machine Learning:** Regression, classification, holdout evaluation
- **Experimentation:** A/B testing, distributions, outlier analysis
- **Business Intelligence:** Power BI, dashboard design, report filters
- **Source Control:** Git, GitHub, branching
- **CI/CD:** GitHub Actions, pull requests, automated tests
- **Data Monitoring:** Pipeline latency, data drift, metric stability
- **Documentation:** Technical documentation, transformation logic, test evidence

EXPERIENCE

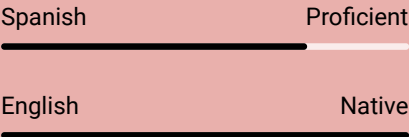
Data Engineering Intern – Supervised Research Placement

University Data Engineering Lab 📅 January 2026 - August 2026 📍 Knoxville, Tennessee

Supported academic operations analytics through cloud ingestion, quality controls, dimensional modeling, reporting, and documented delivery practices. Worked under faculty guidance while coordinating technical findings and priorities with research stakeholders.

- Built **Python** and **SQL** ETL pipeline for 185,000 records, loading Azure Data Lake and Databricks tables.
- Added schema, null-rate, duplicate, and integrity checks, stopping flawed files before reporting jobs ran.
- Created dimensional model for enrollment and advising activity, documenting transformations and reusable GitHub patterns.
- Profiled **distributions**, outliers, and **missingness** across eight fields, guiding revised rules with faculty sponsor.
- Configured GitHub Actions **CI/CD** for SQL checks and Python tests, creating repeatable pull-request reviews.

LANGUAGES



MY CAREER



- Published **Power BI** prototype, sharing pipeline status, limitations, and next deliverables during weekly reviews.

Data Engineering Intern – Cloud Analytics Capstone

Capstone Project 📅 September 2025 - December 2025 📍 Knoxville, Tennessee

Delivered a supervised cloud analytics capstone focused on consumer demand, translating sponsor questions into scoped data work, curated tables, statistical tests, and actionable reporting for a mock business audience.

- Scoped consumer-demand problem with three teammates, converting sponsor interviews into requirements and acceptance criteria.
- Developed **Azure** Python ingestion jobs for 42,000 transactions, loading curated tables into **Databricks**.
- Used SQL transformations and documented models, preserving source keys across product, store, date, and transaction entities.
- Evaluated missing values, unusual distributions, and duplicates, recording **validation** decisions and test evidence.
- Designed A/B test for dashboard layouts, calculating **confidence intervals** before recommending a clearer option.
- Presented Power BI report and technical documentation, translating **regression** and **classification** findings into practical actions.

Data Engineering Intern – Statistical Data Project

Student Analytics Lab 📅 January 2025 - May 2025 📍 Knoxville, Tennessee

Prepared retail data for supervised laboratory work in profiling, model evaluation, reporting, and reproducible transformation. Practiced statistical reasoning, repository collaboration, and clear communication through instructor-reviewed **deliverables**.

- Prepared 26,000-row retail dataset with Python and SQL for profiling, evaluation, and reporting exercises.
- Built repeatable ETL notebook, standardizing dates and categories while retaining an audit log.
- Compared **probability**-based sampling approaches, summarizing distributions, **outliers**, and confidence intervals in an instructor-reviewed report.
- Implemented regression and classification **experiments** with holdout evaluation and **metric stability** checks.
- Connected curated outputs to Power BI, creating four-page filters for product, region, and time.
- Used **Git** branching and pull requests, resolving SQL errors and improving final repository documentation.

PROJECTS

Consumer Demand Analytics Pipeline 📅 2026

Built an Azure and Databricks analytics foundation for simulated retail demand, combining Python ingestion, SQL modeling, validation evidence, statistical testing, and Power BI communication.

Student Services Data Quality Monitor 📅 2026

Created a documented monitoring workflow for student-services data, checking missingness, duplicates, schema consistency, outliers, pipeline latency, and reporting readiness.

LEADERSHIP & AWARDS

- Dean's List, University of Tennessee – Fall 2025 and Spring 2026
- Undergraduate Research Presentation Award, College of Arts and Sciences – 2026
- Finalist, Tennessee Student Data Challenge – 2025
- Workshop Coordinator, Data Science Club – 2025-2026
- Peer Mentor, Undergraduate Research Lab – Spring 2026

CERTIFICATIONS

- Microsoft Learn: Azure Data Fundamentals Learning Path 📅 2026
- Databricks Academy: Fundamentals of the Databricks Data Intelligence Platform 📅 2026
- Google Data Analytics Professional Certificate 📅 2025

- Valid Tennessee Driver's License 📅 2026

PROFESSIONAL AFFILIATIONS

- Data Science Club, Workshop Coordinator — 2025-2026
- Spanish Conversation Partner, Center for Global Engagement — 2024-2026
- Undergraduate Research Lab Peer Mentor — Spring 2026

ADDITIONAL INFORMATION

Work Status : Authorized to work in United States. No sponsorship required.

REFERENCES

AVAILABLE ON REQUEST