

Spencer Nash

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SUMMARY

Early-career data engineer with a 2026 Bachelor of Science in Computer Science and practical experience across university projects, research, and supervised analytics work. Built Python and SQL pipelines that cleaned, integrated, validated, and modeled relational and cloud-hosted datasets for reporting and operational analysis. Applied ETL/ELT methods, database design, **data structures**, cloud computing concepts, visualization, and **modern data architectures** across public-service, retail, and community-health use cases. Communicated **technical findings** through dashboards, presentations, documentation, and concise briefs for faculty, student teams, researchers, and nontechnical stakeholders. Exposure includes Java, PostgreSQL, AWS S3, Amazon Athena, Tableau, Power BI, Git, testing, and data quality controls. Ready to contribute curiosity, careful reasoning, and collaborative consulting support across client **data services** projects.

EDUCATION

Bachelor's Degree in Computer Science

2026

University of Louisiana at Lafayette GPA: 3.8

Lafayette, LA

***Coursework:** Data Engineering, Database Systems, Algorithms, Cloud Computing, Data Analytics*

TECHNICAL SKILLS

- **Programming Languages:** Python, SQL, Java
- **Database Systems:** PostgreSQL, relational databases, normalized schemas
- **Data Engineering:** ETL, ELT, data pipelines
- **Cloud Platforms:** AWS, Amazon S3, Amazon Athena
- **Data Quality:** schema checks, null validation, duplicate detection
- **Analytics Tools:** Tableau, Power BI, spreadsheet analysis
- **Data Modeling:** data structures, time dimensions, data dictionaries
- **Testing Practices:** test cases, reconciliation queries, exception logging
- **Version Control:** Git, repository documentation, controlled handoffs
- **Data Architecture:** staging layers, curated layers, modern data architectures
- **Data Integration:** CSV, PostgreSQL, cloud-hosted datasets
- **Communication Tools:** technical presentations, data briefs, stakeholder reporting

SKILLS

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|-----------|-------------------|-----------------------------|-----------------------------|
| • Python | • Databases | • Cloud computing | • Data visualization |
| • SQL | • Data structures | • Modern data architectures | • Stakeholder communication |
| • Java | • Data processing | • Data integration | • Technical documentation |
| • ETL/ELT | • Data analytics | • Reporting | |

EXPERIENCE

Data Engineering Practicum Student

September 2025 - May 2026

University Data Services Lab

Lafayette, LA

Supported supervised data services work across Python, SQL, PostgreSQL, AWS, Athena, Tableau, and Git. Helped student analysts prepare reliable reporting datasets, review cloud-query options, document transformations, and communicate findings for faculty and community-program stakeholders.

- Combined 185,000 public-service records with **Python** and **SQL** into documented reporting datasets.
- Added schema checks and duplicate rules, exposing data-quality issues before dashboard publication.
- Modeled service categories and time dimensions in **PostgreSQL** for repeatable monthly analysis.
- Compared **AWS S3** layouts with **Amazon Athena** query plans for lower-cost cloud analysis.
- Built **Tableau** views that clarified service volume, processing time, and geographic patterns.
- Documented Git handoffs, enabling three analysts to reproduce controlled pipeline workflows.

Student Data Engineer

January 2025 - May 2025

Capstone Data Platform

Lafayette, LA

Built a supervised retail data platform prototype for daily sales, product, and inventory analysis. Combined Python, SQL, PostgreSQL, ELT layers, testing, Power BI, and presentation work to help a four-member team assess replenishment decisions.

- Ingested sales and inventory files for 42 locations with **Python** and SQL standardization.
- Built incremental ELT layers that reduced manual file preparation for analysis.
- Applied PostgreSQL indexes and normalized schemas for accurate product-level **reporting**.
- Tested 28 failure cases covering missing dates, duplicates, and late inventory updates.
- Created **Power BI** filters that supported location, category, and period-based replenishment discussions.
- Presented architecture limits and recommendations to a four-member faculty panel.

Research Data Analyst

University Research Project

August 2024 - December 2024

Lafayette, LA

Prepared research data for a faculty study on community health access. Used Python, SQL, Java, spreadsheets, documentation, charts, and presentations to support privacy-conscious analysis and clear **communication** with technical and public-health audiences.

- Prepared 12,600 de-identified survey responses with **Python** and SQL for faculty analysis.
- Cleaned categorical values and dates while preserving the research data dictionary.
- Built a **Java** validator that logged exceptions before database loading and review.
- Compared SQL summaries with spreadsheet checks, resolving discrepancies alongside the supervisor.
- Produced charts and a technical brief that clarified patterns and sampling limits.
- Presented privacy-conscious methods and findings at an undergraduate research symposium.

PROJECTS

Cloud Query Cost Study 📅 2025

Compared partitioned and unpartitioned AWS S3 layouts with Amazon Athena query plans. Findings helped clarify cloud storage choices, query behavior, and practical tradeoffs for an emerging data platform.

Community Health Data Brief 📅 2024

Translated de-identified survey analysis into accessible charts and a concise brief. Careful discussion of sampling limits helped public-health readers interpret findings responsibly.

LEADERSHIP & AWARDS

- Dean's List, University of Louisiana at Lafayette, Fall 2025 and Spring 2026
- Undergraduate Research Symposium, Data Presentation Finalist, 2024
- Computer Science Capstone Showcase, Faculty Commendation, 2025

CERTIFICATIONS

- IBM SkillsBuild Data Fundamentals 📅 2026
- IBM SkillsBuild Cloud Computing Fundamentals 📅 2026
- AWS Academy Cloud Foundations 📅 2025

PROFESSIONAL AFFILIATIONS

- Data Science Student Association, Peer Workshop Coordinator, 2025-2026
- Undergraduate Research Symposium Planning Committee, Student Representative, 2024
- Computer Science Tutoring Center, Volunteer SQL Tutor, 2025-2026

LANGUAGES

- English (Native)
- Spanish (Intermediate)

ADDITIONAL INFORMATION

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

REFERENCES

AVAILABLE ON REQUEST