

Lukas Wilkins

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SUMMARY

Early-career Cloud Engineer with a 2026 Bachelor of Science in **Computer Science** and hands-on university experience across AWS, Java, Python, Spring Boot, microservices, REST APIs, and **software development life cycle** delivery. Built and tested cloud-hosted services with Amazon EC2, S3, RDS, and CloudWatch, then documented deployment steps so reviewers and classmates could reproduce results. Applied Core Java, JavaScript, C++, SQL, statistics, Tableau, Power BI, Snowflake, NLP, text mining, and **time series analysis** across software and data projects. Brings self-directed learning, technical curiosity, clear writing, and confident presentations. Ready to support cloud engineering, **software programming**, data analysis, or machine learning initiatives while growing deeper capability with AWS, Databricks, and Snowflake.

EDUCATION

Bachelor's Degree in Computer Science
North Carolina State University GPA: 3.8
Coursework: Cloud computing, software engineering, database systems, statistics, data visualization, machine learning

2026
Raleigh, NC

TECHNICAL SKILLS

- **AWS Services:** Amazon EC2, Amazon S3, Amazon RDS, AWS CloudWatch
- **Java Development:** Java, Core Java, Spring Boot, JUnit
- **Web Programming:** JavaScript, REST APIs, JSON, HTML
- **Software Architecture:** Microservices, containerization, service catalogs, API contracts
- **Programming Languages:** Java, Python, C++, JavaScript
- **Data Analysis:** Python, pandas, SQL, descriptive statistics
- **Data Visualization:** Tableau, Power BI, dashboards, visual reporting
- **Data Platforms:** Snowflake, Databricks, SQL, trial tables
- **Machine Learning:** NLP, text mining, time series analysis, statistics
- **Development Practices:** SDLC, Git, code review, issue tracking
- **Testing and Quality:** Unit testing, validation, exception handling, defect triage
- **Cloud Operations:** AWS deployment, IAM, CloudWatch, release checklists

SKILLS

- | | | | |
|-------------|-----------------|----------------------|------------------------|
| • AWS | • JavaScript | • REST APIs | • Databricks |
| • Java | • C++ | • Statistics | • Snowflake |
| • Core Java | • Spring Boot | • Data Visualization | • Time Series Analysis |
| • Python | • Microservices | • Power BI | |

EXPERIENCE

Entry Level Cloud Engineer (AWS) Project
University Cloud Engineering Capstone

September 2025 - May 2026
Raleigh, NC

Supported a supervised capstone focused on cloud-hosted service delivery. Built Java and Spring Boot microservices, connected REST APIs with a JavaScript interface, and deployed containerized workloads across AWS services. Owned architecture notes, test evidence, release checklists, and review presentations, giving faculty a clear view of technical decisions, operating cost, and user value.

- Built a Java and **Spring Boot** service catalog as modular **microservices**, turning coursework requirements into documented REST API contracts and a usable prototype.
- Deployed containerized services with **Amazon EC2**, S3, RDS, and CloudWatch, then created setup guides and environment diagrams for repeatable faculty review.
- Added **Core Java** validation, exception handling, and unit tests, resolving inconsistent API responses across catalog search and request workflows.
- Applied **software development life cycle** practices through backlog refinement, Git code reviews, sprint demonstrations, and release checklists for controlled delivery.
- Connected a JavaScript interface with REST endpoints, enabling 18 student testers to search services, submit requests, and report usability issues.
- Presented architecture choices, test results, and cost-aware **AWS** deployment options to a four-member panel, earning capstone distinction.

Cloud Data Analysis Research Assistant

January 2025 - August 2025

University Data Science Research Lab

Raleigh, NC

Worked under faculty supervision on a public transportation study combining Python analytics, statistics, visualization, SQL, Snowflake, NLP, text mining, and time series analysis. Prepared reproducible data assets, translated findings into dashboards, and explained analytical limits in written reports and research presentations for academic stakeholders.

- Prepared 42,000 public transportation records with **Python**, **pandas**, and statistical summaries, identifying recurring delay patterns for faculty research review.
- Built **Tableau** and **Power BI** dashboards linking route behavior with time-of-day variables, making findings easier for a research group to compare.
- Compared moving-average and seasonal time series methods, documenting assumptions, validation steps, and limitations in a final research report.
- Organized cleaned observations in SQL and **Snowflake** trial tables, leaving reproducible preparation notes for subsequent student researchers.
- Applied introductory **NLP** and **text mining** to 3,600 rider comments, grouping service themes for qualitative comparison and follow-up discussion.
- Presented analytical choices and visual results at an undergraduate research forum, communicating technical findings clearly to students and faculty.

Java and Python Software Programming Practicum

September 2024 - December 2024

Student Software Development Lab

Raleigh, NC

Completed supervised programming work across Java, Core Java, C++, JavaScript, Python, Spring Boot, **REST APIs**, AWS S3, Git, and software development life cycle practices. Converted process diagrams into tested exercises, documented troubleshooting steps, and supported peer reproduction so a 12-person lab cohort could complete work with fewer manual delays.

- Developed an inventory application through **Java** and C++ exercises with **JavaScript** elements, translating process diagrams into tested programming assignments.
- Created Python scripts for data cleansing, descriptive **statistics**, and CSV validation, reducing manual preparation work for a 12-person lab cohort.
- Implemented a **Spring Boot** REST API for product lookup and transaction updates, publishing endpoint documentation and sample requests for peer testing.
- Practiced Git branching, issue tracking, code review, and defect triage within a simulated **software development life cycle**, improving release discipline.
- Configured an AWS S3 file storage and retrieval workflow, recording IAM assumptions and troubleshooting steps in a technical lab notebook.
- Delivered a demonstration and written handoff that helped classmates reproduce the application locally and verify primary test cases.

PROJECTS

Transit Delay Forecasting Study 📅 2025

Built a Python analytics study using statistics, Snowflake, Tableau, Power BI, NLP, text mining, and time series analysis. Combined structured records with rider comments, then presented practical findings through clear visual reporting.

Cloud Service Catalog Prototype 📅 2026

Created a separate cloud-native prototype using Java, Spring Boot, REST APIs, microservices, containerization, and AWS deployment planning. Focus remained on reproducible setup, test evidence, and clear technical communication.

LEADERSHIP & AWARDS

- Computer Science Capstone Distinction, North Carolina State University, 2026
- Undergraduate Research Forum Presentation Recognition, 2025
- Dean's List, North Carolina State University, Fall 2024 and Spring 2025

CERTIFICATIONS

- AWS Academy Cloud Foundations 📅 2026
- Python for Data Science 📅 2025
- Microsoft Power BI Data Analyst Learning Path 📅 2026

PROFESSIONAL AFFILIATIONS

- Cloud Computing Club, North Carolina State University, 2024 - 2026
- Computer Science Student Success Program, Peer Mentor, 2025 - 2026
- Undergraduate Research Forum Planning Team, Volunteer Presenter, 2025

LANGUAGES

- English (Native)
- Spanish (Intermediate)

ADDITIONAL INFORMATION

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

REFERENCES

AVAILABLE ON REQUEST