Spencer Nash

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SUMMARY

Junior machine learning engineer and BI analyst with two years of applied academic experience building Python models, SQL reporting workflows, and cloud-ready data solutions. Computer science training spans machine learning, artificial intelligence, **data analysis**, **business intelligence**, **software engineering**, **automation**, DevOps, and database design. Delivered supervised banking-services and budgeting projects that turned stakeholder questions into documented datasets, dashboards, and predictive prototypes. Comfortable with Python, Java, SQL, pandas, scikit-learn, Tableau, Git, Docker, AWS, REST APIs, and PostgreSQL. Practical work covers DSA, system design, SQL, model evaluation, pipeline automation, technical documentation, and behavioral storytelling. Ready to bring curiosity, steady execution, and thoughtful communication to a team building dependable software, analytics, and ML solutions.

EDUCATION

Bachelor's Degree in Computer Science 2026

North Carolina State University GPA: 3.8 *Raleigh, NC*

Coursework: *Machine Learning, Data Analysis, Business Intelligence, Software Engineering, Database Design*

TECHNICAL SKILLS

- **Programming Languages:** Python, Java, SQL
- **Machine Learning:** scikit-learn, Model Evaluation, Classification
- **Data Analysis:** pandas, Data Profiling, Forecasting
- **Business Intelligence:** Tableau, Dashboards, Calculated Fields
- **Cloud Platforms:** AWS, AWS Academy Cloud Foundations, Cloud Computing
- **DevOps Tools:** Docker, GitHub Actions, Git
- **Databases:** PostgreSQL, Star Schema, SQL Queries
- **Software Engineering:** REST APIs, Unit Testing, Structured Logging
- **Automation:** Python Scripts, CI Pipelines, Build Checks
- **Data Structures:** DSA, Algorithms, Complexity Analysis
- **System Design:** Service Design, Integration Patterns, Scalability
- **Documentation:** README Files, Model Cards, Technical Guides

SKILLS

- Analysis Skills
- Artificial Intelligence
- Automation
- Banking Services
- Business Intelligence
- Cloud Computing
- Data Analysis
- Data Science
- DevOps
- Java
- LinkedIn
- Machine Learning
- Python
- Software Engineering
- SQL

EXPERIENCE

Machine Learning Engineering Research Assistant

August 2025 - Present

University Machine Learning Lab *Raleigh, NC*

Faculty-guided research role supporting supervised **machine learning**, reproducible experiments, data preparation, model evaluation, Docker delivery, and clear technical communication for banking-services analysis.

- Built Python classification pipeline for banking-services data with reproducible experiment notes and clean feature preparation.
- Compared logistic regression, random forest, and gradient boosting through precision, recall, F1, and confusion matrices.
- Automated pandas data preparation scripts, shortening weekly experiment setup and improving review consistency for researchers.
- Containerized prototype with Docker and documented dependencies, configuration, and local execution for four-person research team.
- Presented model assumptions, error patterns, and fairness considerations during lab reviews for timely faculty feedback.
- Published repository with SQL extracts, model cards, test cases, and README supporting professional ML documentation.

Junior BI Analyst, Academic Capstone

January 2025 - May 2025

Capstone Business Intelligence Project *Raleigh, NC*

Business intelligence role delivering SQL analysis, Tableau reporting, Python trend analysis, and documented recommendations for simulated banking budgeting and branch right-sizing decisions.

- Designed banking intelligence solution linking branch **budgeting**, service demand, account activity, and **right-sizing** decisions.
- Wrote SQL against star-schema warehouse with 180,000 anonymized records and validated reconciliation totals.
- Created Tableau dashboards covering budget variance, service volume, account activity, and branch comparisons for stakeholders.
- Profiled seasonal trends with Python and pandas, producing documented forecasting inputs for budgeting workshops.
- Translated five stakeholder questions into dashboard requirements, wireframes, calculated fields, and acceptance checks.
- Delivered recorded presentation and implementation guide earning top-tier evaluation for clarity, traceability, and decision usefulness.

Python/Java Developer, University Project

August 2024 - December 2024

Software Engineering and Cloud Automation Project

Raleigh, NC

Software engineering role delivering a Java and Python service prototype with REST integration, PostgreSQL, automated testing, Docker Compose, and GitHub Actions for a simulated operations workflow.

- Developed **Java** and Python service ingesting support events and exposing summary metrics for **business intelligence**.
- Implemented REST endpoints, validation rules, structured logging, and unit tests within a shared codebase.
- Configured GitHub Actions for tests, linting, and build checks on every repository change.
- Connected application with PostgreSQL through Docker Compose and documented environment setup for peer evaluators.
- Applied SQL aggregation and Python analysis to identify backlog patterns for an operations review.
- Explained design tradeoffs, failure handling, deployment steps, and ML opportunities during department showcase.

PROJECTS

Banking Services Risk Classifier 2026

Built a documented Python and scikit-learn prototype for imbalanced account-risk analysis. Compared models, recorded evaluation results, and presented fairness considerations in a professional review format.

Branch Budget Intelligence Dashboard 2025

Created SQL and Tableau reporting for simulated bank branches. Connected budget variance, service demand, and operational right-sizing views so finance stakeholders could discuss decisions with shared evidence.

Cloud Operations Event Service 2024

Developed Java and Python REST services with PostgreSQL, Docker Compose, GitHub Actions, logging, and tests. Project demonstrated deployable software engineering habits beyond classroom exercises.

PORTFOLIO

Title: Professional Project Repository

Link: linkedin.com/example/spencernash

Description: Selected ML, BI, Java, Python, and cloud automation work presented through documented project evidence.

LEADERSHIP & AWARDS

- Dean's List, North Carolina State University, Fall 2024 and Spring 2025
- Best Applied Analytics Presentation, College Capstone Showcase, 2025
- Undergraduate Research Poster Finalist, North Carolina State University, 2026

CERTIFICATIONS

- Google Data Analytics Professional Certificate 2025
- AWS Academy Cloud Foundations 2025
- Machine Learning with Python, IBM SkillsBuild 2026

PROFESSIONAL AFFILIATIONS

- Machine Learning Lab Peer Mentor, North Carolina State University, 2025-2026
- Treasurer, Computer Science Student Association, 2024-2025
- Volunteer Workshop Presenter, Data and Analytics Student Group, 2025

LANGUAGES

- English (Native)
- Spanish (Intermediate)

ADDITIONAL INFORMATION

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

REFERENCES

AVAILABLE ON REQUEST