



Jasper Woods

Entry-Level Data Engineer with Python

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SUMMARY

Recent Computer Science graduate prepared for **client-facing technology assignments** involving Python, Java, data engineering, and software programming. Built documented pipelines, REST APIs, Spring Boot services, Tableau dashboards, and analytics workflows through university capstone work and supervised technical labs. Applied SQL, PostgreSQL, pandas, statistics, text mining, **natural language processing**, and **time series analysis** across structured and unstructured datasets. Practiced **software development life cycle** methods through Git branches, pull requests, endpoint testing, technical documentation, and reproducible delivery packages. Clear presentations and concise writing helped faculty reviewers assess design decisions, data quality, and analytical findings. Ready to keep learning independently, contribute thoughtfully within a collaborative team, and help clients turn reliable data and practical software into useful decisions.

EDUCATION

Bachelor's Degree in Computer Science

University of New Hampshire 🎓 GPA: 3.8 📅 2026 📍 Durham, New Hampshire

Coursework: *Software Development Life Cycle, Statistics, Database Systems, Machine Learning*

TECHNICAL SKILLS

- **Programming Languages:** Python, Java, Core Java, C++
- **Web Programming:** JavaScript, REST APIs, Spring Boot
- **Data Engineering:** SQL, PostgreSQL, pandas
- **Service Architecture:** Microservices, Spring Boot, REST APIs
- **Data Science:** Statistics, Python, time series analysis
- **Data Visualization:** Tableau, data visualization, dashboards
- **Language Analytics:** Natural language processing, text mining, tokenization
- **Software Delivery:** Software development life cycle, Git, pull requests
- **Testing Practices:** Unit testing, endpoint testing, validation checks
- **Technical Documentation:** Architecture notes, data dictionaries, test evidence
- **Cloud Foundations:** AWS Academy Cloud Foundations, cloud concepts, cloud services

EXPERIENCE

Data Engineering Capstone Contributor

Academic Data Engineering Project 📅 September 2025 - May 2026 📍 Durham, New Hampshire

Supported a three-person team building a documented transportation data pipeline, reporting layer, REST service, and analytics package. Combined Python, SQL, PostgreSQL, Spring Boot, Tableau, Git, testing, and **technical documentation** while presenting findings to faculty reviewers.

- Built **Python** and SQL staging flow for 185,000 trips, producing documented reporting tables
- Added PostgreSQL checks for missing timestamps, duplicate identifiers, routes, and duration values
- Created pandas modules with Git pull requests, supporting a reviewable **software development life cycle**
- Delivered **Spring Boot** REST endpoints with tests for valid, missing, and empty requests
- Compared weekday and weekend demand through **time series analysis**, informing **Tableau** dashboard reviews
- Packaged architecture notes, data dictionaries, and test evidence for reproducible team handoff

Software Development Lab Contributor

University Software Development Lab 📅 January 2025 - August 2025 📍 Durham, New Hampshire

STRENGTHS

- ✓ **Data Quality**
Caught timestamp, duplicate, route, and duration issues before reporting; reviewers trusted cleaner results.
- 📖 **Independent Learning**
Picked up unfamiliar tools through focused practice, then applied them in a working pipeline for class review.
- 💬 **Clear Communication**
Turned design notes and test findings into plain presentations; peers often asked for help clarifying results.
- 🔧 **Practical Testing**
Checked valid, missing, and empty API requests, catching edge cases before demonstrations and reducing surprises.
- 👥 **Collaborative Delivery**
Used branches and pull requests across a three-person team; shared documentation kept handoffs straightforward.

SKILLS

Python Java Core Java C++

JavaScript SQL Spring Boot

REST APIs Microservices

Statistics Tableau Text Mining

Time Series Analysis

Software Development Life Cycle

Written Communication

LANGUAGES

English	Native
Spanish	Intermediate

MY CAREER



- Data Engineering Capstone Contributor at Academic Data Engineering Project (8 Months)
- Software Development Lab Contributor at University Software Development Lab (7 Months)

Contributed within a supervised lab focused on Java programming, microservices, data analysis, and **natural language processing**. Combined Core Java, Spring Boot, JavaScript, Python, statistics, and REST API documentation for demonstrations reviewed by faculty and peers.

- Processed 42,000 library events with **Core Java** collections, exceptions, and object-oriented design
- Separated catalog, borrower, and reporting functions in a Spring Boot **microservices** prototype
- Documented REST API contracts and used **JavaScript** filters for branch and date demonstrations
- Compared moving-average estimates with Python **statistics**, recording assumptions for short-term demand analysis
- Tokenized 3,200 comments for **text mining**, summarizing themes in a supervised NLP exercise
- Presented tests and design limits to six reviewers, then clarified errors and documentation

PROJECTS

Community Transit Demand Explorer 📅 2026

Created a practical analytics concept for transit planners using Python, PostgreSQL, time series analysis, and Tableau. Focused on readable demand trends, documented assumptions, and clear recommendations for service discussions.

Campus Comment Insight Toolkit 📅 2025

Built a small natural language processing and text mining workflow for anonymized campus comments. Used tokenization and theme summaries to turn unstructured feedback into useful review material.

LEADERSHIP & AWARDS

- Dean's List, University of New Hampshire, Fall 2025 and Spring 2026
- Outstanding Capstone Presentation, Department of Computer Science, 2026
- Undergraduate Research and Project Showcase Finalist, 2026

CERTIFICATIONS

- Python for Everybody Specialization 📅 2025
- SQL for Data Science 📅 2025
- AWS Academy Cloud Foundations 📅 2026

PROFESSIONAL AFFILIATIONS

- Peer Mentor, Computer Science Peer Learning Group, University of New Hampshire, 2025 - 2026
- Project Coordinator, Student Data and Analytics Association, University of New Hampshire, 2025 - 2026
- Volunteer Workshop Presenter, Campus Python Study Sessions, 2025

ADDITIONAL INFORMATION

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

REFERENCES

AVAILABLE ON REQUEST