

Cover Letter

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Hiring Team
Blue Harbor Analytics
Cambridge, Massachusetts

Dear Hiring Team at Blue Harbor Analytics,

I am excited to apply for the Entry-Level Data Engineer with **Python** role at Blue Harbor Analytics. I recently completed a Bachelor of Science in Computer Science at the University of New Hampshire, where I built practical skills in Python, Java, statistics, and the **software development life cycle**. I am ready to keep learning and begin my career in technology.

In my data engineering capstone, I built a Python and SQL pipeline for 185,000 transportation records. I added checks for missing timestamps, duplicate identifiers, invalid routes, and unusual durations before loading the data into PostgreSQL. This work taught me to turn messy source files into reliable tables and to document each step clearly.

I created a **Spring Boot REST API** for route summaries and demand trends, then tested valid requests, missing parameters, and empty results. I used Tableau dashboards and **time series analysis** to present weekday and weekend patterns. In a software lab, I developed Core Java applications, worked with microservices, and built a text-mining exercise with **natural language processing**.

Blue Harbor Analytics appeals to me because the role combines software programming, data analysis, and structured skill development. I bring technical curiosity, independent learning habits, and clear written and verbal communication. I would welcome the opportunity to discuss how my project experience can support your team and client-facing assignments.

Thank you for your time and consideration. I look forward to hearing from you.

Sincerely,