Stephanie Gillihan

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Summary and Objective

I have over thirteen years of data analysis, risk analysis, and regulatory compliance experience in the oil and gas industry, with a proven record of finding technical solutions to improve efficiency and advance decision-making capabilities. My passion for leveraging data and technical solutions in decision making processes led me to pursue a second B.S. in Applied Computer Science, and I'm ready to transition into a computer science role. My primary objective is to find a role in data science, data engineering, or data architecture.

Key Achievements include:

At Onstream Pipeline Inspection
- Assumed responsibility for a difficult client, with whom we were failing expectations. Developed custom procedures, including custom macros, for the client that turned around client satisfaction with the deliverable.

At DCP Midstream
- Transformed the gas gathering risk analysis model from qualitative scoring to comprehensive, data-based quantitative scoring.

At Plains All American
- Creating and implementing a program to tie data from volume accounting software to GIS based data. This process eliminated ~80% of the manual effort that previously went into the work, as well as allowing the entire integrity department to benefit from the more readily available data.

Core competencies include:

Pipeline integrity • Corrosion risk analysis • MFL data analysis • Geometry or caliper data analysis • ASME MB31G • Data Analysis (Hypothesis testing, probability, linear regression) • CFR 49 Part 192 & 195 • QA/QC • GIS software

Technical Skills

Python (including Pandas library) • C++ • familiarity with SQL, VBA, Matlab, and R • Microsoft Excel (Advanced) • ESRI products (ArcGIS and related) • Proprietary ILI software

Education

Bachelor of Science, Applied Computer Science
University of Colorado • Boulder, CO • 2026 (anticipated)

Bachelor of Science, Environmental Geoscience *cum laude*
Texas A&M University • College Station, TX • 2011
National Merit Scholar 2007

Professional Certifications

NACE Pipeline Corrosion Integrity Management, ASNT ILI-PQ-2017 Level III

Professional Experience

Onstream Pipeline Inspection Services – Houston, TX - *An oil and gas service company specializing in inline inspections.*

Sr. Data Analyst – 2020-2022, 2023-present
Provided high quality on-time data analysis for assigned projects. Responsibilities included data processing, data quality troubleshooting, MFL and geometry data analysis, data integration, and client specific reporting.

DCP Midstream – Denver, CO – *A midstream natural gas company specializing in gathering and processing.*

Sr. Pipeline Integrity Specialist – 2022-2023

Founding member of the gas gathering pipeline integrity team. Responsibilities included data integration, risk analysis, and development of integrity assessment program for pipelines impacted by the PHMSA "Mega Rule".

- Managed initiative-driven projects such as pigging feasibility studies, machine learning risk pilot, and centerline verification studies
- Developed quantitative risk analysis model for gas gathering program.

Plains All American – Houston, TX – *A midstream energy infrastructure company specializing in pipeline transportation, terminaling, and storage of oil and gas.*

Pipeline Integrity Supervisor – 2019-2020

Supervised integrity management program for non-jurisdictional assets. Responsibilities included evaluating the IMP for process gaps, training new integrity professionals, and managing workload to achieve targets.

- 100% training & certification compliance for my team.
- Created and implemented a new low volume review procedure that integrated input from Operations, Commercial, and Integrity groups.

Pipeline Integrity Specialist – 2017-2019

Implemented integrity management program for non-jurisdictional assets. Responsibilities included compiling and integrating data about pipelines in order to evaluate risk and conduct appropriate risk mitigation measures.

- Built consensus with operations personnel regarding integrity tasks and workload management.
- Drove initiatives to increase group efficiency, such as developing macros and creating better spreadsheet templates.

ROSEN Group – Houston, TX - *An oil and gas service company specializing in asset care and inline inspections.*

Data Analyst – 2012-2017

Provided high quality on-time data analysis for assigned projects. Responsibilities included MFL and geometry data analysis, client support, and mastering evolving technology.

- Recognized as department expert in challenging analysis topics such as couplings, complex corrosion, trimmed bends, wrinkle bends, and combined evaluations.

Client Lead – 2015-2016

Managed a team of 4-5 data analysts. Responsibilities included project scheduling, quality assurance, team training, and client support.

- Led team to ship 147 reports in the 2015 calendar year (21% of department goal out of 9 teams in department).
- Managed data analysis and reporting for 4 key clients and around a dozen other clients.
- Improved team efficiency and report quality by establishing detailed work procedure documentation for clients with complex reporting requirements.
- Achieved higher than average certification rates for trainees by implementing periodic team training workshops.

Personal Interests and Achievements

- Various 5k, 10k, half marathon, and triathlon races. Completed first Olympic distance triathlon in September 2018 and raised $500 for Houston Food Bank. Completed the Ironman 70.3 Wisconsin in September 2024.
- Woodworking. Projects have included a record/TV stand, bar, wine racks, picture frames, coffee table, dining room table.