

Stacie Herda

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SUMMARY

Software engineer with experience building C# (.NET) applications, backend systems, and automated workflows. Skilled in Python, C#, and relational databases with a strong ability to troubleshoot issues, analyze system behavior, and collaborate with cross-functional teams.

EXPERIENCE

Software Engineer (Performance), IBM, San Jose, CA Jan. 2024 – Jan. 2026

- Deployed Docker-based environments across 5+ nodes to standardize distributed test infrastructure.
- Analyzed SQL Server data across 10+ release cycles to identify regressions in distributed systems.
- Evaluated system metrics and query behavior across 50+ scenarios to detect inconsistencies.
- Automated validation workflows for large-scale database workloads to reduce manual verification.
- Collaborated with multiple teams to ensure consistency during multi-component releases.

Process Engineer, Northrop Grumman, Santa Rosa, CA Mar. 2021 – Dec. 2023

- Designed and deployed .NET C# inventory tracking applications to save \$20K in initial costs.
- Developed VBA/C# data pipelines to ingest and transform GBs of data from 2,000+ files into MSSQL.
- Performed EDA and anomaly detection across 350+ datasets using Python and R for data validation.
- Developed SSRS dashboards and SQL reports for multi-GB datasets and improved legacy R codebase.

Process Engineer, Associate, TSI Semiconductors, Roseville, CA Sep. 2019 – Feb. 2021

- Created VBA scripts for data parsing and cleaning to reduce processing time up to 80%.
- Built Python automation scripts to decrease manual task time from 30 minutes to less than 5.
- Tuned thin film parameters to meet client specifications for multi-thousand-dollar product lots.
- Applied statistical process control (SPC) techniques to monitor manufacturing data quality.

SKILLS

Languages: Python, C# (.NET), SQL/T-SQL, R, VBA | **Application Development:** Backend, .NET, REST APIs | **Data & Analytics:** ETL, EDA, Data Modeling, Validation | **DevOps:** Docker, Git/GitHub (CI/CD) | **Other:** SQL Server Databases

EDUCATION

M.S. Computer Science, University of Colorado, Boulder Graduated May 2025

B.S. Chemical Engineering, University of California, Davis Graduated Jun. 2019