
Data-focused software engineer with experience building data pipelines, analyzing large datasets, and delivering insights through dashboards and reporting. Currently pursuing a Master of Data Science.

Education

- University of Pittsburgh** December 2026 (Expected)
Master of Data Science.
- Case Western Reserve University** May 2011
Bachelor of Arts in Mathematics and Computer Science.

Professional Experience

- Carnegie Learning** *Senior Software Engineer* February 2022–June 2023
Developed, maintained, and supported various third-party integrations for a learning management system relating to single sign on. Partnered with customer support and product teams to investigate user-facing problems, translating data findings into actionable fixes. Identified operational issues using Splunk, Python, AWS, and MySQL. Presented analysis findings to stakeholders to guide product decisions.
- Rivers Agile Solutions** *Software Engineer* December 2020–November 2021
Collaborated with clients to gather business requirements and develop solutions. React, Angular, Three.js, Heroku, Android, SQL Server, Azure Functions.
- Bonon Associates** *Independent Contractor* January 2020–November 2020
Analyzed a legacy system and determined the client's requirements. Designed and developed a replacement with Django in Python.
- Maven Machines** *Senior Software Engineer* August 2017–December 2019
Built a data pipeline to process and clean real-time trucking telemetry to enable downstream analysis. Transformed noisy event data into structured datasets for analytics, operational dashboards, and reporting. Implemented, deployed, and tested critical API integrations to meet regulatory deadlines. Improved the stability and scalability of a microservice-oriented cloud system. Promoted best practices for continuous testing and deployment management. Led server postmortems to identify root causes and prioritize production improvements. AWS, Node.js, Go.
- The Bank of New York Mellon** *Senior Developer* January 2016–May 2017
Analyzed system behavior and test data to identify risks in complex legacy processes. Collaborated with stakeholders to clarify requirements and evaluate potential system impacts. Developed automated testing processes to improve data reliability and system stability.
- Google** *Software Engineer* July 2011–November 2015
- GOOGLE AFFILIATE NETWORK** Rewrote test suites to speed up code reviews by an order of magnitude. Designed an API to connect reporting and analytics to the sales team.
- SHOPPING METADATA** Stabilized internal tooling used by the technical writing team. Built end-to-end tests to enable CI/CD data pipeline. Deployed tooling improvements to optimize the team's workflow. Developed front-end features to promote attribute-based shopping and browsing, and back-end features concerning data quality. Promoted code health and fixits. Maintained an on-call rotation. Java, C++

Skills

- Coursework: Predictive Modeling, Bayesian Analysis, Deep Learning, Data Visualization; Pandas, Matplotlib, PyTorch, scikit-learn, pymc, Tableau.
- Python, C++, SQL, Rust, Bash, Polars, Pandas, Arrow, d3, DuckDB, GDAL, SPARQL, Parquet, PDF, protobuf, RabbitMQ, Docker, AWS Certified DevOps Engineer - Professional