# Erin SHELLMAN

## Data Scientist | Leader

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I'm a data scientist with a track record of shipping data-driven software products. I bring scientific reasoning and technical depth to every project, with a focus on analytical processes and automation that make advanced methods like machine learning and AI practical and reliable. I work best in environments that prioritize rapid, incremental delivery and value direct communication. Throughout my career, I've emphasized continuous learning, presenting, and sharing knowledge with others. I love data science because it demands constant adaptation and creative problem solving.

## Experience

**January 2026 – April 2026**

### Data Science Architect, Devoted Health, Seattle, WA | Waltham, MA

Devoted is a Medicare Advantage provider that uses technology and data to deliver better care to seniors. As a Data Science Architect, I focused on analytics engineering, forecasting, and AI-driven development practices.

- Built and maintained analytics engineering pipelines with dbt, Airflow, and Snowflake.
- Owned the daily call center forecast model that drove staffing decisions for customer care.
- Owned the employee scorecard used to track customer care outcomes across the organization.
- Led AI-driven development on the team, including custom Claude Code skills and agents that accelerated our development workflow.

dbt | Airflow | Snowflake | Python | Claude Code | Codex | GitHub

**July 2025 – December 2025**

### Director of Data Science, King County Regional Homelessness Authority, Seattle, WA

Individual contributor role (non-managerial) driving data science strategy and execution for the agency responsible for coordinating regional homelessness response. With a small team and limited resources, focused on building sustainable open-source analytics infrastructure and improving data fluency across departments. Unfortunately, KCRHA laid off much of its staff, including me, shortly into my tenure.

- Deployed and maintained cost-efficient, open-source analytical tools.
- Prepared analyses and reports in response to questions from journalists and policy-makers and to support KCRHA leadership in legislative sessions.
- Drafted data science roadmap including organizational structure of data team, and cross-departmental initiatives.

Azure | R | JupyterHub | Superset | GitHub

**September 2024 – December 2025**

### Recording Engineer, Jack Straw Cultural Center, Seattle, WA

I took a career sabbatical and spent the time pursuing my life-long hobby of recording music. Following an internship, I joined the engineering staff at Jack Straw, a non-profit recording studio in the U District. I spent the time recording music, poetry, audiobooks, and radio dramas. I also provided support for the numerous events hosted at the studio, in particular the annual Blind Youth program.

Pro Tools | Izotope RX | OBS

**January 2021 – September 2024**

### Senior Director / Head of Data, Ginkgo Bioworks, Seattle, WA | Boston, MA

Ginkgo Bioworks is a synthetic biology company applying microbial engineering and industrial fermentation at scale. Built and led a multi-team data organization (data science, platform engineering, enterprise analytics, and data product & strategy) delivering analyses, software products, and infrastructure across the company.

- Defined the vision for data at Ginkgo and scaled the team from 3 to 21 employees.
- Drove quality and continuous improvement in laboratory services by establishing templated reports, gold standard data sets, and formalized data processes/best practices.
- Partnered with the software organization to implement vendor solutions that improve instrumentation and data quality.
- Implemented vendor and in-house tools to strengthen regulatory compliance (SOX, finance, and ops).
- Launched a powerful, custom web application that allowed scientists to explore and retrieve datasets, build custom analyses, and download presentation-ready visualizations.

Snowflake | dbt | Airflow | SQL | GitLab | Jira

December 2018 – December 2020

**Senior Director, Data Science and Analytics, Nordstrom, Seattle, WA**

Directed a 40-person organization delivering data products for merchandising, e-commerce, operations, and executive strategy.

- Led several Analytics functions including A/B testing and optimization, data engineering, digital applications (recommendations, search and browse, content optimization), and corporate strategy (scaled events, traffic estimation, store strategy).
- Launched two merchandising teams supporting the Nordstrom Product Group with forecast-driven intelligence including price and markdown optimization.
- Built a digital operations program to reduce fraud and improve customer care, automating fraud/abuse decisions in call centers and forecasting call volume for scheduling.
- Developed a SQL curriculum for non-technical audiences outside the CoE.

R | SQL | GitLab | Jira | event-driven systems

October 2015 – November 2018

**Senior Data Scientist / Engineering Manager, Zymergen, Seattle, WA | Emeryville, CA**

Zymergen was a biotechnology company at the intersection of data science, microbiology, and materials science. As the founding data scientist and manager, I established the team's strategy and led execution.

- Researched and implemented a data processing pipeline supporting high-throughput screening platform with analytical automation by creating data pipelines to clean, normalize, and analyze data with `pandas` and `Airflow`.
- Developed and patented predictive models to recommend genetic edits likely to result in high-performing strains. Patent ID : 10047358
- Built dashboards to monitor operational metrics in near real-time with `Superset`.
- Built and lead distributed teams as I grew the data science organization from 1 to 14 people including launching an office in Seattle.

Python | Pandas | R | tidyverse | Apache Airflow | Superset | AWS | GitHub

November 2014 – May 2018

**Program development consultant | Instructor, University of Washington, Seattle, WA**

- Developed a 3-course series in applied deep learning covering fundamentals through NLP, image recognition, and reinforcement learning.
- Developed and taught a 10-week machine learning course for business intelligence covering regression, decision trees, association rules, and clustering.

TensorFlow | Deep Learning | R | tidyverse | caret | arules

March 2015 – October 2015

**Research Scientist II, Amazon Web Services | S3, Seattle, WA**

First member of an embedded research team with a mission to inform critical S3 engineering decisions with data.

- Mined and aggregated terabytes of S3 web server request logs using `Scala` | `Spark` in the AWS ecosystem, specifically `EMR`, `S3`, `EC2`, and `RedShift`.
- Applied a broad set of analytical techniques to inform engineering decisions including segmentation of customer usage patterns, survival analysis to estimate time-to-network-failure, and disk capacity / latency simulation.

Scala | Spark | R | tidyverse | AWS | Survival Analysis | simulation study

March 2013 – March 2015

**Data Scientist II, Nordstrom | Data Lab, Seattle, WA**

The Data Lab is a small team of data scientists and software developers who build data-driven software products. Our focus was high-risk, high-reward projects with the ultimate goal of making the best customer experiences in retail.

- Designed and developed novel product recommendation algorithms, including recommendations based on real-time customer behavior.
- Filed Nordstrom's first technology patent for recommendations based on stylist domain expertise and color harmony (Patent ID : 480467).
- Built a personalized algorithm and email campaign to remind customers to replenish beauty products based on individual consumption patterns.
- Mentored an intern who became a permanent member of the team.

Python | Pandas | Seaborn | R | tidyverse | AWS

## Education

2012 PhD Bioinformatics — University of Michigan, Ann Arbor, MI
2008 MS Biostatistics — University of Michigan, Ann Arbor, MI
2006 BA Economics, Evolutionary Biology — Case Western Reserve University, Cleveland, OH