

# Rory Hartong-Redden

July 2, 2024 | Boulder, CO | roryhr@gmail.com | roryhr.com

## Summary

Manager and Senior Data Scientist who enjoys empowering teams and telling stories with data.

## Tools

Python, Git, Shell, Terraform, Elixir                      SQL, Metabase, Postgres, Spark, Hadoop, S3  
Docker, AWS, CircleCI, Github CI/CD                      Jupyter Notebooks, PyCharm, ChatGPT  
**Python Tools:** scikit-learn, TensorFlow, pandas, Flask, numpy, matplotlib, pytest, Spark ML

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## Professional Experience

- **SyBridge Technologies (Fast Radius)** Boulder, CO  
*Technical Manager* Aug 2021–May 2024
    - Mentored and coached junior data scientists, elevating the team’s analytical capabilities and fostering a culture of continuous learning and improvement
    - Ensured high availability of revenue-critical APIs through high-quality code, comprehensive test suites, and synthetic Datadog API production tests to deliver \$10M per month in instant quotes
    - Created SQL queries in Metabase to collect training data and track model performance over time
    - Worked with cross-functional teams to align on manufacturing process cost models
  - **Fast Radius** Chicago, IL  
*Data Scientist* Feb 2020–Aug 2021
    - Tech stack: Python, SQL, scikit-learn, Flask, Docker, AWS ECS, Datadog, Metabase
  - **runtastic** Linz, Austria  
*Data Engineer* Oct 2018–Sep 2019
    - Tech stack: Python, Spark, Hadoop, Flume, Oozie, Hive, RabbitMQ
    - Led the design and deployment of a “People You Might Know” data product using Spark, scikit-learn, SparkML, and Elasticsearch
    - Built a data exchange prototype with Apache Kafka and a production system with AWS S3
  - **Allstate** Menlo Park, CA  
*Research Analyst* Jul 2016–Sep 2018
    - Tech stack: Python, pandas, TensorFlow, Spark, Julia, PostGIS
    - Trained machine learning models and analyzed telematics and crash data for risk prediction
    - Co-authored a paper on our research “Real-time Prediction of Intermediate-Horizon Automotive Collision” with the Stanford Intelligent Systems Lab
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## Education

- **University of California, Santa Barbara** Santa Barbara, CA  
*MS Mechanical Engineering* Dec 2014
  - Tech stack: MATLAB, SolidWorks, L<sup>A</sup>T<sub>E</sub>X
  - Thesis research: Designed and built an experiment to measure Faraday waves using a novel image processing technique for 3D high-speed mm-resolution measurement over a surface area of 225 cm<sup>2</sup>
- **University of California, Santa Barbara** Santa Barbara, CA  
*BS Physics & BS Mechanical Engineering* June 2010