

# Rory Hartong-Redden

June 12, 2024 | Boulder, CO | roryhr@gmail.com | roryhr.com

## Summary

Experienced data analyst and machine learning engineer with over eight years of experience in data analytics, engineering, and machine learning. Proven ability to derive actionable insights from complex datasets, develop and maintain data visualization tools, and collaborate with multidisciplinary teams to enhance business intelligence and strategic decision-making.

## 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, pandas, Flask, numpy, matplotlib, seaborn, pytest, Conda

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## Professional Experience

- **SyBridge Technologies (Fast Radius)** Boulder, CO  
*Technical Manager and Lead Data Scientist* Aug 2021–May 2024
    - Ensured high availability of revenue-critical APIs through high-quality code, comprehensive test suites, and synthetic Datadog tests in production
    - Created SQL queries in Metabase to collect training data and track model performance over time
    - Supported R&D initiatives with statistical analysis and visualization of varied data such as accelerometer, temperature readings, and CAD file sizes using Jupyter Notebooks with Python
    - 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, scikit-learn, Flask, Docker, AWS ECS, Datadog, Metabase, SQL
  - **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: Measured Faraday waves using a novel image processing technique for cheap 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