

# Rory Hartong-Redden

August 13, 2024 | Boulder, CO | roryhr@gmail.com | linkedin.com/in/rory-hartong-redden | roryhr.com

## Summary

Senior Data Scientist with experience managing projects, performing statistical analysis, backend web development, and wrangling messy real-world data.

## Skills

Programming Languages: Python, SQL, Shell      DevOps: AWS, Docker, Terraform, CircleCI, Git  
Data Processing: Postgres, Spark, Hadoop, S3  
Data Science Tools: Scikit-learn, XGBoost, TensorFlow, pandas, PySpark, Matplotlib

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## Professional Experience

- **SyBridge Technologies (Fast Radius)** Boulder, CO  
*Technical Manager and Senior Data Scientist* Aug 2021–May 2024
    - Ensured revenue-critical API availability by developing high-quality code and comprehensive test suites, enabling \$10M per month in instant quotes
    - Crafted SQL queries to collect training data, monitor model accuracy, and answer business questions
    - Predicted shipping costs using mixed integer programming to pack boxes along with the UPS API
    - Provided statistical analysis and visualization support for R&D projects involving manufacturing IoT data using Jupyter Notebooks with Python
  - **Fast Radius** Chicago, IL  
*Data Scientist* Feb 2020–Aug 2021
    - Tech stack: Python, SQL, Scikit-learn, Flask, Docker, AWS ECS, Datadog
    - As the founding data scientist, deployed the first machine learning model progressing from research to data munging to production deployment with Docker
  - **runtastic** Linz, Austria  
*Data Engineer* Oct 2018–Sep 2019
    - Tech stack: Python, SQL, Spark, Hadoop, Flume, Oozie, Hive
    - Led the design and deployment of a “People You Might Know” data product using Spark, scikit-learn, SparkML, and Elasticsearch
  - **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 research paper titled “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