

Rory Hartong-Redden

June 10, 2024 | Boulder, CO | roryhr@gmail.com | roryhr.com

Summary

Data scientist with eight years of experience spanning analytics, engineering, and science

Tools

Python, Git, Shell, Julia, Elixir
AWS, Docker, CircleCI, CI/CD
Python Tools: matplotlib, seaborn, pandas, Flask, scikit-learn, requests, pytest, Conda

SQL, Metabase, Postgres, Spark, Hadoop, S3
Jupyter Notebooks, PyCharm, ChatGPT

Professional Experience

- **SyBridge Technologies (Fast Radius)** Boulder, CO
Technical Manager and Lead Data Scientist Aug 2021–May 2024
 - Created SQL queries and visualizations in Metabase of training data and prediction errors
 - Maintained high-quality code essential for generating revenue supported by a comprehensive test suite and automated Datadog tests to ensure optimal latency and uptime
 - 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, Metabase
 - Developed a machine learning model for our eCommerce part manufacturing business, progressing from ad hoc statistical data exploration to production deployment, to instantly generate customer quotes for the FDM 3D printing process
 - **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 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^AT_EX, TikZ
 - 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 cm²
- **University of California, Santa Barbara** Santa Barbara, CA
BS Physics & BS Mechanical Engineering June 2010