Rory Hartong-Redden

June 21, 2024 | Boulder, CO | roryhr@gmail.com | roryhr.com

Summary

Senior Data Scientist with extensive experience handling large volumes of GPS data at Runtastic and Allstate. Passionate about the trails around Boulder, I am eager to help more people enjoy their trails at scale.

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

Professional Experience

- **SyBridge Technologies (Fast Radius)** — Boulder, CO
  Technical Manager and Senior 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

- **Fast Radius** — Chicago, IL
  Data Scientist — *Feb 2020–Aug 2021*

  - Tech stack: Python, SQL, scikit-learn, Flask, Docker, AWS ECS, Datadog, Metabase
  - Deployed a Dockerized machine learning model for our eCommerce contract manufacturing business, progressing from ad hoc statistical data exploration to production deployment, to instantly generate customer quotes for the FDM 3D printing process
  - As the founding data scientist, established the ML ops that generated over $10M per month in instant quotes

- **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, LaTeX
  - 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 $225\,\text{cm}^2$

- **University of California, Santa Barbara** — Santa Barbara, CA
  BS Physics & BS Mechanical Engineering — *June 2010*