Rory Hartong-Redden

June 7, 2024 | Boulder, CO | roryhr@gmail.com | roryhr.com

Summary

Experienced data scientist and ML Engineer with eight years of experience in the data world. I'm primarily hands-on but I have two years of management experience leading a data science team.

Tools

Python, Julia, Elixir, SQL, Git, Bash
SQL, Postgres, Spark, Hadoop, S3
AWS, Docker, CircleCI, CI/CD
Jupyter Notebooks, PyCharm
Python Tools: Flask, Pandas, scikit-learn, requests, pytest, PySpark, XGBoost, TensorFlow, Conda

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Professional Experience

- **SyBridge Technologies (formerly Fast Radius)** Boulder, CO
  Technical Manager and Lead Data Scientist *Aug 2021–May 2024*
  - Leading the data science team as we expand and improve models that instantly quoting parts
  - Maintained documented code with a solid test suite and automated Datadog tests for latency and uptime
  - Trained a random forest regression model of cycle time for CNC costing
  - Predicted shipping costs using mixed integer programming and the UPS API

- **Fast Radius** Chicago, IL
  Data Scientist *Feb 2020–Aug 2021*
  - Tech stack: Python, scikit-learn, Flask, Docker, AWS
  - Developed and maintained machine learning models in production to instantly quote the FDM additive 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*
  - Thesis research: Incorporated an image processing technique for cheap 3D high speed mm-resolution measurement over a surface area of $225\,\mathrm{cm}^2$

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