Rory Hartong-Redden

June 11, 2024 | Boulder, CO | roryhr@gmail.com | roryhr.com

Summary

Experienced data scientist with a bent towards software engineering with eight years of experience from analytics, data engineering, to machine learning

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*
  - Our APIs were in the path of revenue so we ensured it highly available though high-quality code, a comprehensive test suite, and synthetic Datadog tests in the production environment
  - 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

- **Fast Radius** Chicago, IL
  Data Scientist *Feb 2020–Aug 2021*
  - Tech stack: Python, 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

- **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: Measured Faraday waves using a novel image processing technique for cheap 3D high-speed mm-resolution measurement over a surface area of 225 cm^2

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