Rory Hartong-Redden

October 24, 2024 | Boulder, CO | roryhr@gmail.com | linkedin.com/in/rory-hartong-redden | roryhr.com

Summary

Senior Data Scientist with 6+ years of expertise in data analysis, experimentation, and machine learning. Throughout my career I've focused on solving the right problem, understanding my data, writing great code, and being a good teammate.

Skills

Programming Languages: Python, SQL, R, Shell DevOps: GitHub, AWS, Docker, CI/CD, CircleCI
Data Processing: Postgres, Spark, Hadoop, S3, Airflow, Databricks
Python Tools: pandas, scikit-learn, Flask, XGBoost, TensorFlow, PySpark, Matplotlib, Jupyter

---

Professional Experience

- **Fast Radius (SyBridge)** — Boulder, CO
  Senior Data Scientist / Technical Manager — *Aug 2021–May 2024*
  - Led a 3-person data science team, partnering with product and engineering teams to develop and deploy key products featured in our IPO documents
  - Ensured API uptime of our revenue-critical service, facilitating $10M in monthly instant quotes
  - Performed time-series analysis on manufacturing IoT data to support R&D efforts
  - Used SQL to extract and analyze data, monitor model performance, create dashboards, and answer business questions

- **Fast Radius** — Chicago, IL
  Data Scientist — *Feb 2020–Aug 2021*
  - Founding data scientist: developed, deployed, and maintained the first cost-prediction regression models, contributing to the early growth of the platform
  - Contributed to "Manufacturing and Development Platform" patent, laying the groundwork for the company's software architecture
  - Established our data science platform with Python, scikit-learn, Flask, Docker, and AWS

- **runtastic** — Linz, Austria
  Data Engineer — *Oct 2018–Sep 2019*
  - Designed and developed a "People You Might Know" feature using Python, Spark, and Hadoop, improving user retention
  - Built an ETL pipeline to anonymize customer data for GDPR compliance

- **Allstate** — Menlo Park, CA
  Research Analyst — *Jul 2016–Sep 2018*
  - Developed and trained machine learning models using Python, pandas, TensorFlow, and Spark to predict risk using customer GPS data, public crash data, and synthetic data
  - Co-authored a research paper with the Stanford Intelligent Systems Lab: "Real-time Prediction of Intermediate-Horizon Automotive Collision"

Education

- **University of California, Santa Barbara** — Santa Barbara, CA
  MS Mechanical Engineering — *Dec 2014*

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