

Rory Hartong-Redden

December 19, 2023 | Boulder, CO | roryhr@gmail.com | roryhr.com | github.com/roryhr

Summary

Senior Data Scientist with over six years of experience. I value practicality and getting stuff done with end-to-end experience from research and development, statistical analysis, to building APIs to serve machine learning models.

Tools

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

Work

- **Fast Radius** Boulder, CO
Senior Data Scientist and Technical Manager Aug 2021–Present
 - Leading the data science team as we expand and improve models that instantly quoting parts
 - Trained a random forest regression model of cycle time for CNC costing
 - Put parts in boxes using mixed integer programming problems to estimate shipping costs
 - **Fast Radius** Chicago, IL
Data Scientist and Technical Manager Feb 2020–Aug 2021
 - Tech stack: Python, scikit-learn, Flask, Docker, AWS
 - As the founding data scientist, built out API for instantly quoting additive technologies
 - The data science team owns features end-to-end so I dip in to write Elixir, JavaScript, or Terraform to get my stuff into production
 - **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
Data Scientist Jul 2016–Sep 2018
 - Tech stack: Python, Pandas, Tensorflow, Spark, Julia, PostGIS
 - Worked with the Stanford Intelligent Systems Lab, co-authored a paper on our research “Real-time Prediction of Intermediate-Horizon Automotive Collision”
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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: Incorporated an 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