Rory Hartong-Redden

September 15, 2023 | Boulder, CO | roryhr@gmail.com | roryhr.com | github.com/roryhr

Summary

senior data scientist and manager

Tools

Python, 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

- **SyBridge (acquired Fast Radius)** — Boulder, CO
  Data Scientist and Technical Manager — *Feb 2020–Present*

  - Tech stack: Python, scikit-learn, Flask, Docker, AWS
  - Promoted to lead the data science team, expanded our models to instantly quote CNC
  - As the founding data scientist, built out API for instantly quoting additive technologies
  - The data science team owns features end-to-end so I'd occasionally write Elixir, JavaScript, and Terraform get our stuff working

- **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

- **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"

Projects

- **Master's Thesis** — Santa Barbara, CA
  Krechetnikov Fluid Physics Lab, Dept. of Mechanical Engineering — *Dec 2013–Jun 2014*

  - Tech stack: MATLAB, SolidWorks, LaTeX
  - Incorporated an image processing technique for cheap 3D high speed mm-resolution measurement over a surface area of $225\,\text{cm}^2$

- **Bachelor's Thesis: Drop Splash Experiment** — Santa Barbara, CA
  Krechetnikov Fluid Physics Lab, Dept. of Mechanical Engineering — *Jul 2009–Oct 2010*

  - Published an article on the physics of splashes based on an experiment I designed and ran

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*