Rory Hartong-Redden

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Summary

Senior Data Scientist with eight years of experience using Python and two years of management experience.

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

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Work

- **SyBridge Technologies (formerly 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
  - Packed parts in boxes using mixed integer programming to estimate shipping costs

- **Fast Radius** Chicago, IL
  Data Scientist *Feb 2020–Aug 2021*
  - Tech stack: Python, scikit-learn, Flask, Docker, AWS
  - As the founding data scientist, built the 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 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
  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: Incorporated an 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*