Rory Hartong-Redden

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Summary

Senior Data Scientist with software engineering experience. I have 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

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Work

- **Fast Radius**   Boulder, CO
  Senior Data Scientist and Technical Manager   *Jan 2021–Present*

  - Promoted to lead the data science team, expanded our models to instantly quote CNC and Injection Molding using ML models predicting cycle time

- **Fast Radius**   Chicago, IL
  Data Scientist and Technical Manager   *Feb 2020–Jan 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'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
  - 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"

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 $225\,\mathrm{cm}^2$

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