

Rory Hartong-Redden

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Summary

data scientist and technical manager

Tools

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

Work

- **Fast Radius** Boulder, CO
Data Science Manager *Feb 2020–Present*
 - Tech stack: Python, Elixir, AWS ECS, Docker, REST API
 - My team (and I) build services to predict the cost of making a part and how long it will take
 - **runtastic GmbH** 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”
 - Evaluated data vendors as possibly enriching internal models or enabling new business opportunities
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Projects

- **Master’s Thesis** Santa Barbara, CA
Krechetnikov Fluid Physics Lab, Dept. of Mechanical Engineering *Dec 2013–Jun 2014*
 - Incorporated a recent image processing technique for cheap 3D high speed mm-resolution measurement over a surface area of 225 cm²
 - **Bachelor’s Thesis: Drop Splash Experiment** Santa Barbara, CA
Krechetnikov Fluid Physics Lab, Dept. of Mechanical Engineering *Jul 2009–Oct 2010*
 - Published a peer-reviewed article on the experimental and theoretical advances I developed that may have solved a 100-year-old puzzle in fluid dynamics
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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*