Rory Hartong-Redden

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Summary

data scientist and manager

Tools

Python, Elixir, SQL, Git, Shell	Spark, Hadoop, S3
AWS, Docker, CircleCI	Jupyter Notebooks, PyCharm

Python Tools: Conda, Flask, Pandas, scikit-learn, requests, pytest, PySpark

Work

- **SyBridge (acquired Fast Radius)** — Boulder, CO
  Data Science Manager — *Aug 2021–Present*

  - Lead the data science team, expanded cost models to cover CNC and molding

- **Fast Radius** — Chicago, IL
  Data Scientist — *Feb 2020–Feb 2021*

  - Tech stack: Python, scikit-learn, Flask, Docker, AWS ECS
  - Founding data scientist, built an API for instantly quoting additive parts

- **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"

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

- **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

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*