

Rory Hartong-Redden

July 4, 2020 | Chicago, IL | roryhr@gmail.com | roryhr.com | github.com/roryhr

Summary

data scientist and engineer

Tools

Python, SQL, Git, Shell Spark, Hadoop, Kafka, Flume
Hive, Postgres, Elasticsearch, PostGIS Jupyter, Sublime Text, Vim
Python Stack: Conda, Pandas, PySpark, scikit-learn, Keras, requests, Flask, pytest

Work

- **Fast Radius** Chicago, IL
Data Scientist Feb 2020–Present
 - Tech stack: Python, Elixir, AWS
 - Develop machine learning micro-services (sometimes without ML) in Python to facilitate internal processes around costing and quoting
 - **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