

Rory Hartong-Redden

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Summary

data engineer and scientist

Tools

Python, SQL, Git, Bash, Java Cloudera Hadoop, Oozie, Airflow, Kafka, Flume
Spark, Postgres, Elasticsearch, PostGIS, Hive Jupyter Notebooks, Sublime Text, Vim
Python Stack: Conda, Pandas, PySpark, matplotlib, scikit-learn, Keras, requests, Flask, pytest

Work

- **Runtastic (acquired by adidas)** Linz, Austria
Data Engineer Oct 2018–Present
 - Data stack: RabbitMQ, Hadoop, Flume, Spark, Hive, Microsoft SQL Server, Qlik
 - Led the design and deployment of a “People You Might Know” data product using Spark, scikit-learn, SparkML, and Elasticsearch
 - Payed off technical debt and simplified the setup while maintaining uptime of company dashboards
 - **Allstate** Menlo Park, CA
Data Scientist Jul 2016–Sep 2018
 - Worked with the Stanford Intelligent Systems Lab, co-authored a paper on our research “Real-time Prediction of Intermediate-Horizon Automotive Collision”
 - Geospatial analysis of telematics and location data with Python and Spark
 - **Startup.ML** San Francisco, CA
Machine Learning Fellow Dec 2015–Apr 2016
 - Algorithmic trading of Bitcoin, using Postgres and Python on Heroku, way before it was cool
 - **Harold Washington College** Chicago, IL
Adjunct Faculty Feb 2015–May 2015
 - Shared my research experience and enthusiasm for Astronomy with my students
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Projects

- **Master’s Thesis** UC Santa Barbara
Krechetnikov Fluid Physics Lab 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