

Rory Hartong-Redden

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Summary

data scientist, data engineer, lapsed physicist

Tools

Python, SQL, Oozie, Airflow, Kafka, Flume Machine Learning, Computer Vision, Deep Learning
Spark, Postgres, Hadoop, PostGIS, Hive Jupyter Notebooks, Git, Bash
Python Packages: Pandas, PySpark, matplotlib, scikit-learn, Keras, requests, Flask

Work

- **Runtastic (acquired by adidas)** Linz, Austria
Data Engineer Oct 2018–Present
 - Maintain legacy data pipeline on Hadoop while preparing new data for the company
 - Handover Cloudera administration to operations team, simplify Flume streaming ingestion
 - **Allstate** Menlo Park, CA
Data Scientist Jul 2016–Sep 2018
 - Support and guide research partnership with the Stanford Intelligent Systems Lab
 - Data engineering and munging with Python and Spark
 - Geospatial analysis of telematics and location data
 - **Startup.ML** San Francisco, CA
Machine Learning Fellow Dec 2015–Apr 2016
 - Developed a FinTech data pipeline for algorithmic currency trading using machine learning
 - Lead the integration of an open-source Python backtesting and trading platform
 - **Harold Washington College** Chicago, IL
Adjunct Faculty Feb 2015–May 2015
 - Presented complex concepts in Astronomy at the level of the general public
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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 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
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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