

# Rory Hartong-Redden

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## Summary

data engineer and scientist, lapsed physicist

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## 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

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## Work

- **Runtastic (acquired by adidas)**                      Linz, Austria  
*Data Engineer*                      *Oct 2018–Present*
    - Simplified streaming ingestion into Hadoop from RabbitMQ with Flume
    - Collaborated to design and build a “People You Might Know” machine learning product
  - **Allstate**                      Menlo Park, CA  
*Data Scientist*                      *Jul 2016–Sep 2018*
    - Supported and guided Allstate’s 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 data pipeline for trading Bitcoin using machine learning (before it was cool)
    - Lead the development of a backtesting and production trading platform
  - **Harold Washington College**                      Chicago, IL  
*Adjunct Faculty*                      *Feb 2015–May 2015*
    - Shared my 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  $225\text{ cm}^2$
  - **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*