Rory Hartong-Redden

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Summary

data engineer and scientist

Tools

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

Work

- **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
  – Simplified GDPR tasks with a handy Python library and streamlined ingestion with a general-purpose Flume interceptor in Java

- **Allstate**   Menlo Park, CA
  Data Scientist   *Jul 2016–Sep 2018*

  – Tech stack: Python, Pandas, Tensorflow, Spark, Julia
  – 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 data using Python, Spark, PostGIS
  – Evaluated data vendors as possibly enriching internal models or enabling new business opportunities

- **Startup.ML**   San Francisco, CA
  Machine Learning Fellow   *Dec 2015–Apr 2016*

  – Algorithmic trading of Bitcoin, using Postgres and Python on Heroku

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*