Rory Hartong-Redden

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Summary

data engineer and scientist

Tools

Python, SQL, Git, Shell	Hadoop, Oozie, 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 GmbH** — Linz, Austria
  Data Engineer — *Oct 2018–Sep 2019*

  - Data engineering stack: Python, Spark, Hadoop, Flume, Oozie, Hive, SQL
  - 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*

  - 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

- **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

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 $225\,\mathrm{cm}^2$

- **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*