

# Rory Hartong-Redden

November 15, 2019 | USA | roryhr@gmail.com | roryhr.com | github.com/roryhr

---

## 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, 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 cm<sup>2</sup>
  - **Bachelor’s Thesis: Drop Splash Experiment** UC Santa Barbara  
*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