

Rory Hartong-Redden

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Summary

data scientist, data engineer, lapsed physicist

Tools

Python, SQL Machine Learning, Computer Vision, Deep Learning
Spark, Postgres, Hadoop, PostGIS, ArcMap Jupyter Notebooks, Git, Bash
Python Packages: Pandas, matplotlib, NumPy, OpenCV, scikit-learn, TensorFlow, requests, Flask

Work

- **Allstate** Menlo Park, CA
Data Scientist Jul 2016–Present
 - 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
Krechtnikov 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
Krechtnikov 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
 - **Transient Optical Sky Survey** UC Santa Barbara
Lubin Lab, Dept. of Physics Sep 2008–Jun 2009
 - Image processing with a Matlab/C data pipeline that analyzed 1GB of images taken each night
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Education

- **University of California, Santa Barbara** Santa Barbara, CA
MS Mechanical Engineering Dec 2014
- **Northwestern University** Evanston, IL
PhD Physics Candidate Sept 2010–Mar 2012
- **University of California, Santa Barbara** Santa Barbara, CA
BS Physics & BS Mechanical Engineering June 2010