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

Data Scientist

Menlo Park, CA

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

Machine Learning Fellow

San Francisco, CA

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

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
- 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

Education

• University of California, Santa Barbara

Santa Barbara, CA Dec 2014

MS Mechanical Engineering

Dec 2012

• Northwestern University

Evanston, IL Sept 2010–Mar 2012

PhD Physics Candidate

Santa Barbara, CA

• University of California, Santa Barbara

June 2010

BS Physics & BS Mechanical Engineering