

Rory Hartong-Redden

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Summary

data scientist, physicist, coder, and all-around nice guy

Skill Summary

Languages: Python, MATLAB

Database: PostgreSQL, SQL

Dev Tools: Git, Heroku, AWS

Machine Learning: Neural Networks, Decision Trees

Python Stack: Keras, NumPy, Pandas, PyTables, , scikit-learn, SQLAlchemy

Work Experience

- **Startup.ML** San Francisco, CA
Machine Learning Fellow Dec 2015–Present
 - Trained, backtested, and ran a leading supervised learning model for currency trading
 - **Harold Washington College** Chicago, IL
Adjunct Faculty Feb 2015–May 2015
 - Gave 2 lectures a week for a descriptive astronomy course
 - **Master’s Thesis: Krechetnikov Fluid Physics Lab** Santa Barbara, CA
Research Assistant Dec 2013–Jun 2014
 - Incorporated a cheap and clever 3D fluid surface measurement using MATLAB for high-speed, mm-resolution measurements over an area of 225 cm²
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Projects

- **Personal** Chicago, IL
Home May 2015–Present
 - Participated in the Walmart, Yelp, and Winton Kaggle competitions
 - Deployed a Twitter clone in Rails to Heroku by following the *Ruby on Rails Tutorial*
 - **Bachelor’s Thesis: Drop Splash Experiment** Santa Barbara, CA
Krechetnikov Fluid Physics Lab, Dept. of Mechanical Engineering Jul 2009–Oct 2010
 - Performed stereo triangulation in MATLAB, reduced the the 3D data, and searched for patterns using my theory of pattern identification
 - Published a peer-reviewed article¹ on the experimental and theoretical advances I developed that may have solved a 100-year puzzle in fluid dynamics
 - **Transient Optical Sky Survey** Santa Barbara, CA
Lubin Lab, Dept. of Physics Sep 2008–Jun 2009
 - Collaborated on the MATLAB/C data pipeline that processed 1GB of images per night
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Education

- **University of California, Santa Barbara** Santa Barbara, CA
MS Mechanical Engineering Dec 2014
 - **Northwestern University** Evanston, IL
Graduate study in Physics & Astronomy Sept 2010–Mar 2012
 - **University of California, Santa Barbara** Santa Barbara, CA
BS Physics & BS Mechanical Engineering June 2010
 - Graduated with honor in both degrees, GPA: 3.7/4.0
 - Dean’s List 11/12 quarters.
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¹Hartong-Redden, R. & Krechetnikov, R. *Pattern identification in systems S(1) symmetry*. Phys. Rev. E. 2011.