Rory Hartong-Redden

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Summary

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

Skill Summary

Dev Tools: Git, Heroku, AWS Languages: Python, MATLAB

Machine Learning: Keras, scikit-learn, XGBoost Data: Pandas, SQLAlchemy, SQL

Work Experience

• Startup.ML

San Francisco, CA

Machine Learning Fellow

Dec 2015-Present

- Trained industry-standard machine learning models for currency trading
- Backtested and optimized trading algorithms

• Harold Washington College

Adjunct Faculty

Chicago, IL

Feb 2015-May 2015

- Gave 2 lectures a week for a descriptive astronomy course

Projects

• Personal Chicago, IL May 2015-Present Home

- Participated in the Walmart, Yelp, and Winton Kaggle competitions
- Learned object-oriented programming with Ruby and Python
- Deployed a Twitter clone in Rails to Heroku by following the Ruby on Rails Tutorial
- Master's Thesis: Faraday Waves Experiment

Santa Barbara, CA

Krechetnikov Fluid Physics Lab, Dept. of Mechanical Engineering

Dec 2013-Jun 2014

- Implemented a novel 3D fluid surface measurement using MATLAB for image processing
- 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

Lubin Lab, Dept. of Physics

Santa Barbara, CA

Sep 2008-Jun 2009

Collaborated on the MATLAB/C data pipeline that processed 1GB of images per night

Education

• University of California, Santa Barbara

Santa Barbara, CA Dec 2014

MS Mechanical Engineering

Evanston, IL

• Northwestern University Graduate study in Physics & Astronomy

Sept 2010-Mar 2012

• University of California, Santa Barbara

Santa Barbara, CA

June 2010

BS Physics & BS Mechanical Engineering

- Graduated with honor in both degrees, GPA: 3.7/4.0

Dean's List 11/12 quarters.

¹Hartong-Redden, R. & Krechetnikov, R. Pattern identification in systems S(1) symmetry. Phys. Rev. E. 2011.