Rory Hartong-Redden

San Franicisco, CA | Mobile: 925.297.9484 | roryhr@gmail.com | github.com/roryhr

Summary

Physicist turned data scientist who's good at doing lots of things okay and a few things very well

Skill Summary

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

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

Work Experience

• Startup.ML San Francisco, CA FellowDec 2015-Present

- Deployed a Python app to heroku which ingests 800MB a day from a live websocket feed into a Postgres database (learned the basics of asynchronous programming along the way)
- Backtesting trading models in Zipline
- Harold Washington College

Adjunct Faculty

Chicago, IL

Feb 2015-May 2015

Gave 2 lectures a week for a descriptive astronomy course

Projects

• Data Science Self-Directed Study

Chicago, IL

May 2015-Dec 2015

- Deployed a Twitter-like app 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
- Arctic Sea Ice Modeling

Northwestern University

Prof. Mary Silber, Dept. of Applied Mathematics

Sep 2011-Jan 2012

- Coded models of arctic sea ice in MATLAB for the study of climate change
- 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 article¹ and gave a talk at a national conference² 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

Education

• University of California, Santa Barbara

Santa Barbara, CA

Dec 2014

MS Mechanical Engineering • Northwestern University

Evanston, IL

Graduate study in Physics & Astronomy

Sept 2010-Mar 2012

• University of California, Santa Barbara

Santa Barbara, CA June 2010

BS Physics & Mechanical Engineering

- - Dean's List 11/12 quarters.
 - Member: Tau Beta Pi engineering honor society

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

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

²63rd Annual Meeting of the APS Division of Fluid Dynamics