Rory Hartong-Redden

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Summary

Physicist turned data scientist turned competent coder

Skill Summary

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

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

Work Experience

• Startup.ML

San Francisco, CA Dec 2015-Present

Fellow

- Deployed a Python app to heroku which ingests 800MB a day from a live websocket feed into a Postgres database (learning asynchronous programming along the way)
- Backtesting algorithmic trading models with Zipline

• Harold Washington College

Chicago, IL

Adjunct Faculty

Feb 2015-May 2015

Gave 2 lectures a week for a descriptive astronomy course

Projects

• Self-Directed Study

Chicago, IL

Home

May 2015-Present

- Studying and applying machine learning methods in Kaggle competitions
- Learned the basics of object-oriented programming with Ruby and Python
- Deployed a Twitter-like app in Rails to Heroku by following the Ruby on Rails Tutorial

• 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 image processing pipeline that processed 1GB of data per night

Education

• University of California, Santa Barbara

MS Mechanical Engineering

Santa Barbara, CA

Dec 2014

• Northwestern University

Graduate study in Physics & Astronomy

Evanston, IL

• University of California, Santa Barbara

Sept 2010-Mar 2012

Santa Barbara, CA

BS Physics & Mechanical Engineering

June 2010

- Graduated with honor in both degrees, GPA: 3.7/4.0
- Dean's List 11/12 quarters.
- Member: Tau Beta Pi engineering honor society

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