Rory Hartong-Redden

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Summary

machine learning, data science, physics, software development

Skills Summary

Languages: Python, MATLAB

Dev Tools: Git, Heroku, PyCharm, AWS

Data: SQL, PostgreSQL, HDF5

ML: Neural Networks, Decision Trees

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

Work Experience

• Startup.ML

San Francisco, CA

Dec 2015-Present

Machine Learning Fellow

- Developed a production FinTech data pipeline for currency trading using industry-standard machine learning methods
- Investigating how Reinforcement Learning can be leveraged to revolutionize algorithmic trading

• Harold Washington College

Chicago, IL

Adjunct Faculty

Feb 2015-May 2015

- Incorporated the latest discoveries in astronomy and the new Cosmos into my lessons

Projects

• Kaggle

Home

San Francisco, CA

May 2015-Present

 Coded a deep residual convolution network in Keras/TensorFlow for multi-label classification for the Yelp Kaggle competition [yelp_kaggle repository]

• Master's Thesis: Krechetnikov Fluid Physics Lab Research Assistant

Santa Barbara, CA Dec 2013-Jun 2014

- Incorporated a recent image processing technique for cheap 3D high speed mm-resolution mea-

surement over a surface area of 225 cm² [profilometry repository]
• 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

MS Mechanical Engineering

Dec 2014

- Thesis: Experimental apparatus for the study of Faraday waves on time-varying domains

• Northwestern University

Evanston, IL

Graduate study: PhD Physics

Sept~2010-Mar~2012

• University of California, Santa Barbara

Santa Barbara, CA

BS Physics & BS Mechanical Engineering

June 2010

- Thesis: Experimental and theoretical study of pattern identification in physical systems with circular symmetry
- Graduated with honor in both degrees, GPA: 3.7/4.0
- Dean's List 11/12 quarters