

Rory Hartong-Redden

San Francisco, CA | roryhr@gmail.com | Cell: 925.297.9484 | roryhr.github.io | github.com/roryhr

Summary

python developer and data scientist
computer vision, machine learning, applied math

Skills Summary

Languages: Python, Matlab, R, C++ **ML:** Keras, TensorFlow, scikit-learn, XGBoost
Data: Pandas, SQL, Postgres, HDF5 **Dev:** Linux, Git, Heroku, PyCharm, AWS
Python Tools: Conda, IPython, Jupyter, Keras, matplotlib, NumPy, OpenCV, Pandas, SQLAlchemy

Work Experience

- **Startup.ML** San Francisco, CA
Machine Learning Fellow Dec 2015–Apr 2016
 - Wrote a FinTech data pipeline from scratch using Python, SQLAlchemy, and Postgres to store streaming financial data
 - Lead the integration of an open-source Python trading platform for testing predictive models
 - Research in Reinforcement Learning for autonomous trading
 - **Harold Washington College** Chicago, IL
Adjunct Faculty Feb 2015–May 2015
 - Presented concepts in Astronomy and Cosmology at the level of the general public
-

Projects

- **Kaggle** May 2015–Present
 - Identifying distracted drivers in images with deep learning for the “State Farm Distracted Driver” Kaggle competition
 - **Master’s Thesis** UC Santa Barbara
Krechetnikov Fluid Physics Lab Dec 2013–Jun 2014
 - Incorporated a recent image processing technique for cheap 3D high speed mm-resolution measurement over a surface area of 225 cm^2 [profilometry repository]
 - **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 on the experimental and theoretical advances I developed that may have solved a 100-year puzzle in fluid dynamics
 - **Transient Optical Sky Survey** UC Santa Barbara
Lubin Lab, Dept. of Physics Sep 2008–Jun 2009
 - Anomaly detection in astronomy using a Matlab/C data pipeline that analyzed 1GB of images taken each night
-

Education

- **University of California, Santa Barbara** Santa Barbara, CA
MS Mechanical Engineering Dec 2014
 - **University of California, Santa Barbara** Santa Barbara, CA
BS Physics & BS Mechanical Engineering June 2010
 - Graduated with honor in both degrees, Dean’s list 11/12 quarters, GPA: 3.7/4.0
 - Member: Tau Beta Pi engineering honor society
-

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