Raymond A. Sutrisno

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Education

•**University of Houston (2016 - 2020)**
Major: Bachelors of Computer Science, **Minor**: Mathematics, **GPA** 3.85

Skills

Programming Languages	Python, Java, C++, JavaScript
Web-Dev	HTML, CSS, NodeJS, ExpressJS, Postgresql, Jekyll
Cloud	GoogleCloud, Amazon Web Services
Tools	bash, git, Docker, make, linux/unix, LaTeX, matlab
Machine Learning	ScikitLearn, Keras, Tensorflow, numpy, pandas, OpenCV

Projects

Vision Tracking module for UH autonomous drone team **Spring 2018**
• ImageNet based convolutional classifier for identifying ground targets for autonomous drone competition.

Keegan's Korner **Spring 2018**
• 4chan like image board built using expressJS and Postgresql backend. Deployed as separate docker containers.

Reamer IP Bot **Fall 2018**
• Discord bot used for WAN ip retrieval for house.
• Works as both a discord bot with command and a http server with JSON api.

Job Experience

•**NSF Research Assistant Internship, *University of Houston*** **Summer 2018**
• Topic: Image Classification of Dewetting Microscopy
• Implemented image processing techniques enhance and extract features from microscopy images of polymer dewetting.
• Techniques formalized into preprocessing pipeline for machine learning.
• Trained and tested various models such as SVM, Neural Networks, Random Forest.
• **project-link**: github.com/gtoti/Summer2018REU

•**Research Assistant, *University of Houston*** **Summer 2017**
• Tasked with implementing "Query By Committee" active machine learning algorithms from research papers for galaxy distance estimation using photometric astronomical data.
•Paper: R. Vilalta, **R. Sutrisno**, E. E. O. Ishida, R. Beck, R. S. de Souza, A. Mahabal, "*Photometric Redshift Estimation: An Active Learning Approach*" IEEE SSCI 2017.

•**Teaching Assistantships, *University of Houston*** **Recurring**
• **(Spring 2019)** Advanced Machine Learning (for Graduates)
• **(Fall 2018)** Introduction to Computer Science (for Undergrads)
• **(Spring 2018)** Artificial Intelligence (for Undergrads)
• **(Fall 2017)** Machine Learning (for Graduates)

Publications

•R. Vilalta, **R. Sutrisno**, E. E. O. Ishida, R. Beck, R. S. de Souza, A. Mahabal: "*Photometric Redshift Estimation: An Active Learning Approach*" IEEE SSCI 2017

Awards

•**University of Houston Deans List**
•**HP CodeWars 2016 3rd Place, *Hewlett Packard* March 2016**
HP Code Wars Computer Science Competition in Houston, TX