

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
Tools	bash, git, docker, make, linux/unix, L ^A T _E X, matlab
Machine Learning	ScikitLearn, Keras, Tensorflow, numpy, pandas, OpenCV

Projects

- | | |
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| Vision Tracking module for UH autonomous drone team <ul style="list-style-type: none">ImageNet based convolutional classifier for identifying ground targets for autonomous drone competition. | Spring 2018 |
| Keegan's Korner <ul style="list-style-type: none">4chan like image board built using expressJS and Postgresql backend. | Spring 2018 |
| Reamer IP Bot <ul style="list-style-type: none">Discord bot used for WAN ip retrieval for house.Works as both a discord bot with command and a http server with JSON api. | Fall 2018 |

Job Experience

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|---|-------------|
| •NSF Research Assistant Internship, <i>University of Houston</i> <ul style="list-style-type: none">Topic: Image Classification of Dewetting MicroscopyImplemented 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 | Summer 2018 |
| •Research Assistant, <i>University of Houston</i> <ul style="list-style-type: none">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, "<i>Photometric Redshift Estimation: An Active Learning Approach</i>" IEEE SSCI 2017. | Summer 2017 |
| •Teaching Assistantships, <i>University of Houston</i> <ul style="list-style-type: none">(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) | Recurring |

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