

Raymond A. Sutrisno

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Education

•University of Houston (2016 - 2020) GPA3.94

Major: Bachelors of Computer Science, **Minor:** Mathematics

Skills

Front-End Technologies	HTML, CSS
Back-End Technologies	NodeJS, Express, Postgresql
Machine Learning	ScikitLearn, Keras, Tensorflow, numpy, pandas, OpenCV
Programming Languages	Python, Java, C++, JavaScript
Tools	bash, git, make, linux/unix, L ^A T _E X, matlab

Projects Experience

•Reamer IP Bot(Spring 2018)

- Discord bot used for WAN ip retrieval for house.
- Used to circumvent needing a static ip business plan from internet provider.
- Works as both a discord bot with command and a http server with JSON api.
- **project-link:** github.com/TetroVolt/ReamerHouseBot

•Java Ray Tracer (Spring 2018)

- Ray tracer rendering demo written Java.
- Main goals were to simulate refraction from transparent objects and reflection geometry.
- **project-link:** github.com/TetroVolt/Java-RayTracer

•Expressions Evaluator

Simple Mathematical Expression Evaluator written in Java. Written without regex for tokenization. Uses reverse polish notation.

- **project-link:** ["github.com/TetroVolt/Expressions](https://github.com/TetroVolt/Expressions)

Job Experience

- **Teaching Assistantships, *University of Houston*** **Fall 2018,**
 - **Advanced Machine Learning** COSC 7462 (for Graduates)(Spring 2019) **Spring 2018,**
 - **Introduction to Computer Science** COSC 1306 (for Undergrads)(Fall 2018) **Fall 2017**
 - **Artificial Intelligence** COSC 4368 (for Undergrads)(Spring 2018)
 - **Machine Learning** COSC 6342 (for Graduates)(Fall 2017)
- **National Science Foundation 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**
 - 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.
 - Tasked with implementing ”Query By Committee” active machine learning algorithms from research papers for galaxy distance estimation using photometric astronomical data.

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