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, LaTeX, matlab

Projects Experience

Reamer IP Bot   **Fall 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   **Spring 2017**
- Simple Mathematical Expression Evaluator written in Java. Written without regex for tokenization. Uses reverse polish notation.
- **project-link:** "github.com/TetroVolt/Expressions

Job Experience

•**Teaching Assistantships,** *University of Houston*	**Various**

- • **(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)

•**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.

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