

# Nuoya(Noah) Rezsonya

**Project Links:** <https://github.com/nuoyakang>

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## Education

**08/2017 - 08/2019**

**Southern Methodist University: Dallas, Texas USA**

**Minor: Machine Learning and Natural Language Processing**

Master of Science in Data Science | Current GPA 4.0

**07/2009 - 02/2014**

**University of New South Wales: Sydney, Australia**

Bachelor of Civil Engineering

## Experience

**12/2018- Present**

**Data Analytics Intern: San Jose, CA USA**

**Visual Threat Inc.**

- Refined the data collection process and write corresponding specs to increase data quality.
- Clean, process, validate and analyze 1 to 2 gigabytes CAN bus data on daily basis. Identify CAN data changes and develop reports on changes in patterns.
- Perfect the product webpage so that clients can arrive at the desired visualization faster. Current version is 15% faster comparing to the old version.
- Business development lead generating two new pilots in short time with the company. Continuing to refine product-market fit and increase new customer reach.

**Primary tools:** Python(pandas, numpy, scikit-learn,matplotlib), Linux Command Line, Meld

**09/2018- 12/2018**

**Data Science Intern: San Francisco, CA USA**

**Ambit Analytics Inc.**

- Found 3 major variations that could be related to poor performance of our NLP model and identified 2 possible solutions to address each issue.
- Based on my findings, tuned parameters in the engine to improve accuracy of different speech metrics, model performance increased by 15.87%.
- Customized existing python scripts with different evaluation metrics against client needs.
- Collaborated with product and business team to generate product dashboard for clients. The last dashboard I worked on has been published on company's official website.

**Primary tools:** Audacity, Python(pandas, numpy, scikit-learn,matplotlib)

**10/2015 - 08/2016**

**Post-Graduate Structural Intern : Chongqing, China**

**JizhunFangZhong Engineering and Architecture**

- Built the database of steel design parameters and costing.
- Supported development and management of scope, schedule and budgets for projects. Monitored construction progress against procurement schedule.

**Primary tools:** Microsoft Excel, MySQL workbench

**05/2014 - 11/2014**

**Executive Assistant Intern : Sydney, Australia**

**Harman Global Holdings**

- Developed new client database from scratch. Documented customer demographics information, transaction records and purchase process, property price range and locations, feedback from customer interactions.
- Found customer segmentations increase the efficiency of sale calls.

**Primary tools:** Microsoft Excel, MySQL workbench

## Skills

**Analytic Tools**

**Database**

**Data Visualization**

**Machine Learning**

Python(pandas, numpy, scikit-learn), R(ggplot2, rvest, plyr, forecast, olsrr, caret), **SAS**  
MySQL, MongoDB

Tableau, Python(matplotlib), Processing

**Regression:** Linear Regression, ANOVA, MANOVA

**Classification:** Logistic Regression, SVMs, k-NN, Random Forests, Ensemble Methods

**Clustering:** k-Means, DBSCAN, Agglomerative Clustering