# Chia Yih Jeng, Andrew

## Contact Information


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**Portfolio:**
https://github.com/AndrewChiaYJ


## Personal Info

**Nationality:**
Singapore PR (Malaysian)

**Language Spoken / Written:**

| | | |
|---|---|---|
| English | Mandarin | Bahasa Melayu |
| Hakka | Cantonese | |

**Programming Language/Tools:**

| | | |
|---|---|---|
| Python | SQL | Program C |
| Tableau | HTML/CSS | Excel |

## Professional Goals

Previously a Yield Enhancement (Data Analytics) Engineer for Micron Semiconductor Pte Ltd, I was exposed to work with various internal stakeholders, with the goal of using data analytics to understand issues hit on semiconductor chips and solve them, to increase the number of usable chips. This working experience has sparked my interest in data, and I have decided to continue my journey in data industry by upskilling in Python and learning more about the Data Science domain.

## Work Experience

### Yield Enhancement (Data Analytics) Engineer
### Micron Semiconductor Pte Ltd. | Jul 2019 – May 2021

**Project Goal as a Team:**
Through Data Analysis, enabled Micron's 2 newest NAND memory product (1-year each) using RG Technology, to allow for mass production.

**Personal accomplishment:**
1. Identified issues through integrating technical knowledge & manufacturing process by leveraging on data mining and analysis.
2. Produced mathematical metrics to analyse on issues hitting on chips (specialised on pillar open issues).
3. Presented daily to management level on concise issue status tracking & improvement actions evaluation to provide direction moving forward.
4. Joined focus team as data experts (to give advice on data) and cooperated with other engineers to troubleshoot these issues together.

## Data Science Projects

- **Project - Regression: Ames Housing Sales Prediction**

This project builds regression models to predict the sale price of house based on influential features.
*Python | Regression Models: Linear Regression, Lasso, Ridge | Pandas*

- **Project - Classification: Fake News Classification**

This project uses NLP method to clean & vectorize news articles data and build classification models to predict whether a certain news article is real or fake.
*Python | NLP Techniques: Remove punctuations & stop words, tokenizing, lemmatization, Count Vectorization, TF-IDF Vectorization | Classification Models: Logistic Regression, Naïve Bayes, Random Forest, AdaBoost, Gradient Boosting, XGBoost, Support Vector Machine, BERT | Flask*

## Education

### General Assembly
### Completion Certificate | Data Science Immersive Course | Jun – Sep 2021

3-month course to learn on the following concepts and apply them through projects.

- Supervised Machine Learning: Regression & Classification Models as used in Data Science Projects above.
- Unsupervised Machine Learning: K-Means Clustering, DBSCAN Clustering, Hierarchical Clustering
- Advanced topics: Time Series (ARIMA), Recommender Systems, Neural Networks, A/B Testing, SQL, Scala, Spark

### National University of Singapore
### Bachelor of Engineering (Hons), 2019 | Materials Sci & Engineering, and Business Mgmt (2nd Major)

- **CAP 4.43 / 5.00** (Second Class Upper / Distinction), NUS ASEAN Scholarship Holder
- Co-curriculum contributions:

1. Raffles Hall Junior Common Room Committee Social Director (Internal)

Led 7 block committees in planning & executing at least 6 bonding events each, allowing residents to bond strongly.

2. Raffles Hall Orientation Camp Vice Head

Co-led organizing committee of Orientation Camp to execute a 4D3N camp for freshmen to familiar themselves with hall.