

ALEX MIAO LU

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EDUCATION

SINGAPORE MANAGEMENT UNIVERSITY - Singapore

Aug 2020 - Jul 2021

Master of IT Business (Analytics Track)

Main courses: R, Python, Spreadsheet Modeling, tableau, NLP, Social Graph.

HANGZHOU DIANZI UNIVERSITY - Hangzhou, China

Aug 2011 - Jul 2015

Bachelor of Communication Engineering

Main courses: MATLAB, principle of communication, digital circuit, etc.

EXPERIENCE

Carro - Singapore

Dec 2020 – Jun 2021

Data Analyst (Internship)

- Responsible for data process, including data cleaning, data extraction. (SQL, Python)
- Interpreted the data and visualized it to get a set of valuable insights. (Tableau, Data Studio)
- Worked with product manager, brainstormed and narrowed down the potential useful data.
- Used some algorithms to do some basic prediction.

Temasek Holdings - Singapore

Jun 2019 – Jul 2019

User Acceptance Tester

- Formulated 5 kinds of test scenarios, prepared test planning and test cases in the Temasek.
- Reported defects in Jira system and tracked them for end-to-end testing.

New H3C Group - Hangzhou, China

Jul 2015 - Sep 2018

(H3C is a digital solution provider which offers a variety digital products and services)

Quality Assurance (Sep 2017 – Sep 2018)

- Edited test flow monitoring instruction and do some trainings to improve efficiency of test.
- Checked and verified every bug to be solved by deadline.

Software Tester (Jul 2015 – Sep 2018)

- Used scripts on Linux to achieve loading test and performance test, e.g. restart servers 1000 times.
- Edited and debugged parameter of Python scripts to replace some manual test and analyzed the results.
- Deployed the test environment for the whole team to do further testing.

ANALYTICS PROJECT

R:

Analyzing gun violence condition in US from 2015-2020, based on the data from [gunviolencearchive.org](https://www.gunviolencearchive.org).

- Used ggplot, tidyverse, shiny packages to visualize the outcome.
- Used chi-square, ANOVA to verify hypothesis.

DAL:

Prediction of flu vaccine acceptance based on the data of US government survey.

- Used SAS to build some logistics regression/ decision tree models.
- Used JMP to visualize the distribution.

Python:

Simulating restaurant voucher distribution process based on employee's preference.

- Used numpy and pandas package on python to vectorize the data and do some data clean and data transformation.

Social Analytics:

Analyzed character importance and character relationship from Harry Potter.

- Used networkx package on python to get social network.
- Used NER to extract important characters.

ADDITIONAL

- **Technical Skills:** Python, NLP, Graph.
- **Software Skills:** Tableau, Data Studio, R, Xshell, Pycharm, Jupyter, R, MATLAB.
- **Language Skills:** Mandarin, English.
- **Work Authorization:** China (Citizen), Singapore (Internship).