

WEY-HAN LIAW

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Junior data scientist with great self-education ability.
Passionate about learning and solving problems.

Technical Skills

- Languages: **Python, JavaScript, R, SQL**
- Frameworks/Libraries: **pandas, NumPy, matplotlib, ggplot2, scikit-learn**
- Other: **Git, Vim, IPython/Jupyter, MongoDB**

Projects

WRANGLE OPENSTREETMAP DATA – JAN 2016

- Wrangle Taipei's 128MB xml map data with 1,750,000+ tags, prepare into MongoDB for further analysis.
- Process raw xml data using iterative parsing, makes the process 4.5x faster.
- Explore usage opportunities with 9 different Mongo aggregation operators.
- Skills: **xml, json, MongoDB, regular expression**

INVESTIGATE A DATASET – DEC 2015

- Explore, summarise, wrangle a 2500+ rows dataset programmatically.
- Solve interesting question by implementing 5 steps data analysis process.
- Plot 3 types of visualisations about distribution, relations in data.
- Skills: **pandas, NumPy, matplotlib, seaborn**

TEST A PERCEPTUAL PHENOMENON – NOV 2015

- Summarise data with descriptive statistics and visualisation, make clear overview to capture relationship within 3 seconds.
- Draw conclusion based on data using 2-sample t-test.
- Skills: **Descriptive Statistics, Inferential Statistics, Hypothesis Testing, t-test**

Relevant Experience

SPEAKER, PYCON APAC 2015 TUTORIAL – TAIPEI, TAIWAN; MAY 2015

- Taught 35-person class for 2 hours and served as an assistant for 4 hours
- Taught about web crawler in Python, with topics including requests, BeautifulSoup, encode/decode, cookies.

LEARNING REINFORCER, AGILEARNING.IO – TAIPEI, TAIWAN; JAN 2015-JUL 2015

- Built chatroom and discussion forum so that classes with 5 to 50 students can deliver messages, links and references in real-time.
- Improved classroom admin UI and functionality so that hosts can now manage members and applicants using only 1 or 2 clicks.

Education

UDACITY – DATA ANALYST NANODEGREE, NOV 2015 - PRESENT

- Relevant courses including: **Intro to Statistics, Intro to Data Analysis, Data Wrangling with MongoDB**