

Tiew Kee Hui

Data Scientist, Air Asia

Email

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LinkedIn

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Website

tiewkh.github.io

Languages

English
Bahasa Malaysia

Technical

Python Java
R C++
AngularJS Angular8
D3.js
HTML CSS PHP
Git GCP AWS

Education

- 2015-2018 **Bachelor of Computer Science (sp. Data Science)** Multimedia University
Graduated with a CGPA of 4.0/4.0. Courses that may be of interest are OOP and Data Structures, Data Mining, Data Visualization, Algorithm Analysis and Design, and Social Media Computing.
- 2013-2014 **Cambridge A Levels** Tunku Abdul Rahman University College
Overall results of 4A*. Subjects enrolled for were Mathematics, Physics, Chemistry and Computing. Top in Malaysia for AS and A Level Computing.
- 2011-2012 **Sijil Pelajaran Malaysia (SPM)** SMK Bukit Indah
Overall results of 9A+. Subjects enrolled for were Bahasa Malaysia, English, Moral, History, Mathematics, Additional Mathematics, Chemistry, Physics and Biology.

Experience

- 10 '19 - Now **Air Asia** Data Scientist
- Helped teammates structure a CI/CD pipeline with GitLab + GCP to deploy solutions automatically with Docker and Cloud Run
- Developed an internal tool with Angular8 and Python for Data Governance and Security to maintain metadata of data assets throughout the entire organization. Utilised JWT for authentication and authorization.
- Collaborated with Digital Marketing to deliver a dashboard that measures customer spending behaviour and lifetime value across certain time periods after acquisition via certain campaigns/channels using Google Analytics and transactional data in BigQuery
- 9 '18 - 9 '19 **iFast Capital** R&D Software Engineer
- Collaborated with Customer Services to develop a chatbot that handles FAQs and general enquiries. Chatbot was served via a Flask API. Experimented with BERT, Rasa, GloVE, word2vec and fastText for sentence embeddings. Integrated final product into the existing website using AngularJS, Java Spring MVC and AWS
- Enhanced a web application platform using Java Spring Web Flow for Customer Services to input training data for the chatbot. Input could be done via typing or Excel uploads
- Conducted churn analysis using XGBoost, Random Forest and SHAP to study characteristics of clients who will discontinue using our services
- 3-6 '17 **SEEK Asia** Internship
- Created dashboards to track data transfer progress to data lake
- Participated in coding an in-house PHP application to transfer data from databases to data lake
- Trained and visualised decision trees for analysing competitors' advertisement performance using PySpark on Databricks

University Projects

2018	Industry Classification of Companies Web application that accepts a company name as input and predicts its corresponding industry using Support Vector Machine, Convolutional Neural Network, word2vec and fastText. Sponsored by SEEK Asia Fully developed in Python using gensim, scikit-learn, Keras and Flask	Final Year Project
2016	Robot War GUI based game developed using object-oriented techniques in Java where the player has to destroy a CPU controlled robot	github.com/TiewKH/Robot-War
2015	Othello Command line based Othello game with superpowers developed in procedural C++	github.com/TiewKH/Othello