

Yap Jian Shen

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TECHNICAL SKILLS

Programming Language: Python, Javascript, HTML, CSS, MATLAB, Java

Deep Learning/Data Science/Machine Learning: PyTorch, Fast.ai, Pandas, NumPy, scikit-learn, Tensorflow, Google AI Platform

Web Development: Django, React.js, Node.js, Docker, App Engine

Databases: PostgreSQL, BigQuery, Firestore, MongoDB, MYSQL

WORK HISTORY

AirAsia

Nov 2019 – Present

Data Scientist

- Customer Segmentation on 20M dataset using RFM and CLV with hybrid model of rule based and unsupervised clustering.
- Developed a Hotel Ranking Model with techniques including Bayesian Adjusted Ranking and Universal Sentence Encoder. Pipeline is served in Kubeflow in GCP.
- Fully deployed a Package (Flight+Hotel) Recommender System in GCP.
- Daily jobs includes analysis of marketing campaign's performance, market attrition analysis, AB Testing, and Power Analysis.
- Tools used daily are, BigQuery, Google App Engine, Google Kubernetes Engine, AirFlow, Kubeflow.

Wooppy Sdn. Bhd.

Oct 2017 – Aug 2018

Machine Learning Engineer

- Developed a Deep Learning based Chatbot in Telecommunication Customer Service which answers 80% of daily inquiries. Model was built with TensorFlow and architecture was based on <https://arxiv.org/abs/1408.5882>
- Built ETL pipeline and infrastructure with Apache Zeppelin and MongoDB
- Job scope includes cleaning, parsing, analysing, labelling, visualizing training data (Image, Text, Conversation)
- Trained an ecommerce image categorizing system with Google Inception v3 with 90.3% top-1 accuracy
- Lead developer in prototyping multiple products using Django and React.js

Dango Digital PLT

Jan 2016 – Present

Web Developer/Co- Founder

- Co-Founder of a company which specialize in building customized web applications.
- Strong advocator of Django, a Python-based web framework.
- Emphasis on industrial software conventions and automations, e.g. Test-Driven Development, Continuous Integration and Continuous Delivery (CI/CD), Containerize applications

- **Fortuna Rewards**

Jan 2019 – Nov 2019

- Fortuna is a KL based startup who acts as a connector between event organizers and sponsors.
- Tech Stack : Backend – Django, Frontend – React.js, CI/CD – Gitlab CI, Docker, Kubernetes, Mobile App – React Native

- **TTC Learning Management System**

Oct 2017 – Mar 2018

- Developed a Learning Management System for a secondary school tuition centre.
- Its features include gamified quiz answering, result monitoring and in app communication between parents, tutor, and students.
- Tech Stack : Backend – Django, Frontend – React.js

- **HPMT Tool Advisor**

Jan 2017 – Mar 2017

- Developed a tool advisor for solid carbide cutting tools. Customers will go through a graphics guided user journey to select tools that best fit their needs.
- Tech Stack : Backend – PHP, Frontend – jQuery. Analytics Platform – Django + React.js.

Astro @ eGG Network

May 2017 – Aug 2017

Contractor – Web Developer

- Developed a Django based Content Management System to facilitate web content production
- Built an API framework with Django Rest Framework

ACHIEVEMENTS

Grab SEA AI Challenge – Computer Vision

July 2019

Top 50 Finalist

- Developed a fine-grained classification model on Stanford Car dataset with ResNet-152 and mixup data-augmentation with 92.5% top-1 accuracy
- Top 50 Finalist out of over 1500 Submissions
- Submission Repository: <https://github.com/jianshen92/stanford-car-grab-challenge>

Axiata Urbanlytics 2019 – Smart City Planning

September 2019

Top 5 Finalist

- Top 5 in score leaderboard for several tasks in data analysis, data visualization, and prediction with dataset related to smart city planning.

PROJECTS

Malaysian Food Classification System

May 2019 – Jun 2019

- Developed a fine-grained classification model on Malaysian Food with 250 classes and over 100,000 images with over 80% Top-1 accuracy
- This project is an unofficial collaboration with Naluri Hidup Sdn. Bhd.

EDUCATION

Monash University Malaysia

Jul 2012 – Jul 2016

Bachelor of Engineering (Electrical and Computer System)

- WAM : 86.09 || CGPA : 3.97 || H1 First Class Honours
- Awards: JPA Scholarship (Full), Dean's Honour List 2013, 2014, 2015 & 2016 (Faculty of Engineering), Best Final Year Project Award (3rd Place)
- Final Year Project: Developed a zebrafish aquarium tracking mechanism with Kalman Filter and Gaussian Mixture Model. Developed a software to analyse zebrafish behaviour according to their movements within the aquarium when subjected to different stimulus.