Jia Jun Tan

Software Engineer · Machine Learning Engineer · Data Scientist

Computer science in NTU and currently on my final semester of university. I am into Data science and artificial intelligence looking for opportunity after May 2020 onward.

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EDUCATION

B.E in Computer Science
Nanyang Technological University (NTU)

08/2017 – Present   *Singapore, Singapore*

Diploma in Electronic & Computer Engineering
Ngee Ann Polytechnic

04/2012 – 02/2015   *Singapore, Singapore*

WORK EXPERIENCE

Research And Development Engineer
Singapore Institute of Manufacturing Technology (SIMTech)

12/2019 – Present   *Singapore, Singapore*
Achievements/Tasks

- Research and Develop machine learning models for auto slotting of items.
- Collect and analyze the images and audios.
- Create and deploy RESTful architecture for local server.

Software Engineer
Echo Tech Pte. Ltd

09/2014 – 02/2015   *Singapore, Singapore*
Provide solutions to help companies to achieve total peace-of-mind in monitoring, tracking, and protecting their assets.
Achievements/Tasks

- Developed program written in C# with SQL to extract data transmitted from RFID devices to calculate the distance and location for a real time monitoring system.
- Manage the IT infrastructure for all IT devices used in the same network throughout the project.
- Wrote user manuals for training purposes on configure of devices for co-worker and end users.

Instructor
The Lab

01/2019 – 03/2019   *Singapore, Singapore*
The Lab empowers kids aged 5-16 with the Computational Thinking knowledge and skills necessary to succeed in the future economy.
Achievements/Tasks

- Educated kid's capabilities of computational thinking through, lego mindstorms and RaspberryPi.

SKILLS

Python JavaScript MySQL React Flask

PERSONAL PROJECTS

Classification Of Major Depressive Disorder (MDD) functional connectome. (01/2019 – 12/2019)
- Predict MDD patient with functional connectome.
- Formulated a new methodology, to extract feature from the functional connectome.
- Machine learning were used to train and predict MDD patient.
- Python, Tensorflow, scikit-learn.

Query Execution Plan translation (08/2019 – 11/2019) ⧉
- System that help users to understand how an improved query can reduce the cost through proper indexing and sorting on commonly queried attributes.
- Python, PostgreSQL.

Job Explorer (01/2019 – 04/2019)
- Web application which allows user to search for company review.
- Utilize Solr Apache, to index the documents to improve the efficiency of the search engine.
- Machine Learning is adopt, to classify the categories of each review.
- Python, Keras, scikit-learn, Flask, Solr Apache.

Course Finder System (08/2018 – 12/2018)
- Web application which allows users to search for suitable school after high school.
- The system is implemented in layer architecture.
- Data used was extracted from data.gov, request through API.
- C#, HTML, CSS, MySQL.

CERTIFICATES

Neural Networks and Deep Learning (12/2019 – Present) ⧉

LANGUAGES

English
Full Professional Proficiency

Chinese (Mandarin)
Full Professional Proficiency

INTERESTS

AI Automation Sport