DAVID TAN

⚑ Australian citizen

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📋 https://gitlab.com/wtan0019

Profile

Applying my high standard of discipline, fast learning ability, and practical communication skills to contribute and gain experience at the organisation. I have more than 2 years of data analysis experience in deep learning and machine learning models, and more than 5 years of experience in developing IT programming skills, including important skills in front-end and back-end areas (such as C / C) ++ , Python, R, and JavaScript. Recently, Computer Vision and Natural Language Process models are my research area in readiness for upcoming industry applications. I believe my skills, knowledge and data-driven passion will contribute significant values to your firm.

Work experience

Data Scientist   **10/2019 – present**
Broadspectrum, Clayton, VIC, Australia
Responsibility
- Develop and maintain actuarial modelling framework, review model design, model controls, model constraints and coding efficiency
- Take responsibility for actuarial modelling projects, utilise existing data for sophisticated statistical analysis and modelling work
Accomplishments
● Built machine learning models of NLP to extract vehicle data from IVMS system
● Automated the process of data validation, reduced the manual works of by 70%

Research Engineer   **05/2019 – present**
Monash Action Lab, Caulfield, VIC, Australia
Responsibility
- Develop audio broadcasting and video challenge game applications in real-time by using Python, NodeJs, React, Javascript and HTML5 languages.
- Provide vital technologies such as Web-socket and WebRTC applied to these applications.
Accomplishments
● Successfully implemented audio broadcasting application worked on RaspberryPi and mobile platforms.
Github link for the project: https://github.com/davidtw999/audiobroadcasting
● Successfully implemented video chain online game.
Github link for the project: https://github.com/davidtw999/videoChain

Operation Manager   **06/2017 – 12/2018**
Umine Pty Ltd, Melbourne, VIC, Australia
Responsibility
- Participated in the team to build the website by using python with Django.
- Provided ongoing IT and technical support, including website and database.
Accomplishments
● Successfully delivered the website to the customers.
● Created the mining software by using Blockchain technology that applied to the cryptocurrency market.

Reporting Analyst   **12/2012 – 01/2017**
Malec Brothers Transport , Brighton east, Australia
Responsibilities
- Create daily reports in a spreadsheet format using graphs and charts for analysis
- Interacted with people from various levels of management.
Accomplishments
● Created an algorithm and models by using Excel for data analysis.
● Successfully analysed an extensive price/specification research as part of a solution to offer to clients.

Work experience

IT Support Analyst   01/2010 − 12/2012
Sinex Trading Pty Ltd, Melbourne, VIC, Australia

Responsibilities
- Routine maintenance of hardware and software
- Identify trends and advise peers and IT Operations Manager of recurring incidents

Accomplishments
● Successfully applied supply chain system for business use.
● Successfully developed the tabular data by using Excel tools.

Intern Software Developer   06/2008 − 06/2009
The Robot cup, Melbourne, VIC, Australia

Responsibility
- Designed a nominal path to play the soccer game.
- Controlled the wheeled robots travelling on a nominated route
- Adjusted accurate robot localisation by using odometry.

Accomplishments
● Successfully implemented a feedback system by using Dead Reckoning technology
to adjust the response from the robot's wheels.
● Learned to use Lyapunov function to control the robot's motion.

Education

Data Science   07/2017 − present
Monash University, Caulfield, VIC, Australia

Master's degree
GPA: 3.55/4.0
WAM: 82.09/100.0

Mechatronics/Computer Science   01/2004 − 06/2009
The University of Melbourne, Melbourne, VIC, Australia

Bachelor's degree
GPA: 3.21/4.0 (Honours - H2B)

Skills

Back end programming
C
C++
Python
R
Bash/Shell

Operating System
Ubuntu
Mac OSX
Windows
Linux
Cloud service

Database
Oracle MySQL
MongoDB
Firebase

Big Data management
Apache Hadoop
Apache Spark
MapReduce

Front end programming
JavaScript/NodeJS
HTML
CSS

Data Visualisation
Tableau
D3 JavaScript
Power BI
R shiny

Data Analysis with ML modelling
Supervised Learning (Python,R)
Unsupervised Learning (Python,R)

Data Analysis with DL modelling
NLP (TensorFlow/Keras)
CV (TensorFlow/Keras)

Data Wrangling
Data transformation
Data reshaping
Web crawler

Interpersonal
Communication Skills
Problem-solving
Teamwork

Awards

FIT5149 Apply Data Analysis
05/2019
Institute of Certified by Monash
https://www.kaggle.com/c/fit5149-2019s1-ass2/leaderboard

Top 1 team for sentiment analysis of Yelp reviews in Kaggle competition by using deep learning models (RNN-LSTM, ULMFIT and BERT)
Github: https://github.com/davidtw999/ulmfitYlep

Datacamp
https://www.datacamp.com/profile/wtan0019

Statement of accomplishment Intermedia Python, Pandas, R and etc.

Hobbies

Exploring distant lands

Feeling the music

Every kind of sport

Social event

Reading the book

References

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