

Zhehao Xu

Graduate Student

Recent graduated student who obtained Master of Engineering degree with Software Engineering diploma in Electrical & Computer Engineering and prepared to contribute abilities to IT-related role while further developing acquired skills and gaining real-world experience. Highly organized, responsible and well-versed in Python.

PROJECTS/PUBLICATIONS

Overwatch Data Mining Project

- Found out elements that effected the match results the most with 83% prediction accuracy on match results in Overwatch video game by constructing and training a random forest classifier using Kaggle dataset along with pandas, scikit-learn in python
- Learned how to preprocess raw data, construct and tune parameters of the random forest classifier and also other potential classifiers including multi-layer perceptron, svm classifiers

Autonomous Driving Lane Detection System

- Developed a lane detection system in a team of 3 members based on fully convolutional neural network that could highlight safe areas for the vehicle during the driving
- In charged of testing the trained neural network and evaluated its performance on self-recorded on-road videos in Windsor
- Implemented the system to a raspberry pi
- Learned knowledge about convolutional neural network, Keras, Matplotlib and other useful machine learning related libraries, and raspberry pi including how to operate it and implement the system onto it

EXPERIENCE

Project Coordinator/GIANTECH Engineering (known as GIA)

2017-10 - 2017-12

- Created learning programs in Gnowbe app including inert gas system (IGS), inert gas generator(IGG), Kyma powermeters
- Developed logo concepts for "GIA Methods" under GIANTECH Engineering and been selected as one of the best designs

EDUCATION

University of Waterloo, Master of Engineering

2018-09 - 2019-12

- Electrical & Computer Engineering, Software Engineering Diploma

University of Windsor, Bachelor of Applied Science

2014-09 - 2018-08

- Electrical Engineering, Outstanding Scholarship

CONTACT

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<https://github.com/ZackTack>

SKILLS

Hard Skills:

- Python (Expert)
- Pandas (Expert)
- NumPy (Expert)
- Scikit-Learn (Expert)
- TensorFlow (Advanced)
- Data Visualization (Advanced)
- Data Manipulation (Expert)
- Git (Intermediate)
- MySQL (Advanced)
- Excel (Expert)

Soft Skills:

- Critical Thinking (Expert)
- Problem Solving (Advanced)
- Interpersonal Skill (Advanced)

LANGUAGE

- Chinese (Native)
- English (Fluent)