Renhao Huang

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http://github.com/HRHLALALA
Kingsford, NSW

CAREER PROFILE

- Bachelor of Engineering (Computer Engineering) – Penultimate Year at UNSW with Distinction Average.
- Effective communication and team collaboration skills developed through the 50 days industrial training with DSIEMS
- Excellent programming skills applied through python teaching at Dream Codes True, Shenzhen.
- Strong enthusiasm for hardware and software development and willingness on new challenges.

Education

Bachelor of Engineering (Computer Engineering) Feb 2017 – Nov 2020

UNSW Sydney

- Achieved High Distinction Average for Mathematics courses and Electrical Engineering Courses.
- Achieved Distinction Average for Computer courses.
- Dean's Honors List for 2019.
- WAM: 80

TECHNICAL SKILLS

Programming Languages

- C, Python, C++, VHDL, Java, HTML, JavaScript, CSS, AVR, MIPS

Deep Learning

- Tools- PyTorch, Keras
- Models – RNN, LSTM, CNN, U-Net, SegNet , GAN
- Reinforcement learning

Data Analysis

- Tools - Pandas, Numpy, Sklearn, MATLAB
- Models – Decision Tree, Bagging, Boosting, random forest, SVM

Image Processing

- Tools - CV2, Pillow
- Formation, Segmentation, Recognition.

Other skills

- Dynamic Programming, Agile, Embedding System, OOP Design, Computer Architecture, Operating System, Digital Circuit Design

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RELEVANT EXPERIENCE

Network Analyst
Dec 2018 – Feb 2019

DSIEMS, Sydney, Australia

- Utilized CAD tools to perform analysis of the telecommunications network copper path.
- Effectively collaborated and maintained good relationships with 3 team members.
- Identified errors and provided constructive suggestions of improvements using Excel.
- Sorted and filtered high volume data files using Python Pandas.

Part-time Python Teacher
Jun 2018 – Current

Dream Codes True, Shenzhen, China (dreamcodestrue.com)

- Introduced basic data structures, functions and modules in Python to the beginners.
- Guided students with projects and provided support and suggestions for improvement.
- Encouraged students to solve problems with creativity and critical thinking.
- Awarded the Monthly Best Video Prize for July 2018.

RELEVANT PROJECTS

Computer Vision Project (EM Segmentation Dataset)
UNSW T2 2019

UNSW, Sydney

- Implemented the U-Net Model using Python Keras.
- Utilized cross validation to test the performance and recorded the experimental data.
- Analysed the performance of U-Net model and explored the improvement.
- Compared the U-Net model with other models implemented by 3 teammates.

Machine Learning Project (StudentLife Dataset)
UNSW T3 2019

UNSW, Sydney

- Selected features according to their potential relationships with target output.
- Compared and anaylsed the performance among Decision Tree, GBT, KNN and SVM using Sklearn.
- Wrote an 18-page report regarding to the results of the experiment.
- Achieved 26.13/30.

Deep Learning Project (IMDB Dataset)
UNSW T3 2019

UNSW, Sydney

- Built the NLP models to perform the sentiment analysis using PyTorch.
- Compared the performance among RNN, LSTM and GRU.
- Reached high accuracy (87.9%)