Yufan WANG

(86) 130-2129-8966 | wyffancy@bupt.edu.cn | Personal Web.: https://yufanwangyuki.github.io/

EDUCATION

Beijing University of Posts and Telecommunications   Beijing, China

Dual Bachelor's degree in Internet of Things Engineering   Jun. 2020 (Expected)

Joint Undergraduate Program (taught in English) with ***Queen Mary University of London***   London, UK

- ***GPA***: 3.71/4.0, ***Ranking***: 3/178
- ***Relevant Courses***: Discrete Techniques for Computing, Advanced Mathematics, Data Structures, Operations Research, Database, Linear Algebra, Probability & Stochastic Processes, C Programming language, and JAVA
- ***Honors & Scholarships***: National Scholarship (1%); Excellent Student Cadre of BUPT (3%); Excellent Student of BUPT (6%)

RESEARCH

National University of Singapore (Remote)   ***Beijing, China***

Data Analyst, **Earnings Prediction Based on RNN and LSTM**   May 2019 – Present

- Pre-process the revenue data of 64 companies from 1982 to 2012 calculated by 61 financial analysts for identifying their silent or positive behaviors using Python Pandas and NumPy.
- Model the relationship of analysts' behavior and a company's stated financial earnings using Python to explore the influence of analyst behavior on revenues calculations and to back-test predictions of financial earnings.

Renmin University of China   ***Beijing, China***

Researcher, **Glaucoma Diagnosis on Deep Learning in Stereoscopic Fundus Images**   Mar. 2019 – Present

- Diagnose glaucoma by combining left and right fundus images using LSTM, then utilize Convolutional Neural Network (CNN) models (ResNet) to identify the optimal diagnostic model with Python Pytorch.
- Apply diverse segmentations, such as loss and U-Net, to obtain optic disc and cup images from stereoscopic fundus images and to sift and extract local features.

Teaching Assistant, **"Deep Learning" Course Preparation and Manuscript Writing**   Mar. 2019 - Present

- Help with the course preparation of *CNN* and *Reinforcement Learning*, such as case collection and design, co-author chapters of a new textbook of the course instructor.

Queen Mary University of London (Remote)   ***Beijing, China***

Python Developer, **AI Recognition Based on Tank-Truck Loading and Unloading Processes**   Feb. 2019 – Present

- Retrieve raw data and interpret video fragments of human activities in tank storage operations using Python and realize face recognition by Deep Learning algorithms such as *CNN*.
- Identify and track human activities to determine compliance of individual loading/unloading processes with industry standard.

Project Leader, **Student Dormitory Management and Inquiry System**   Nov. – Dec. 2018

- Established a database of student information and dormitory rooms of 10 in *MySQL*, and used *SQL* to realize the data query function; Conducted *JDBC* connection and displayed query results in GUI by *JAVA*.

Beijing University of Posts and Telecommunications   ***Beijing, China***

Algorithm Designer, **Drone Performance Aided Design and Control System**   Jun. 2018 – May. 2019

- Designed and optimized flight algorithms of drone formation using MATLAB to adopt the distributed formation, realizing the master-slave predictive mode, and the formation convergence with a discrete controller.
- Generated simulation interfaces by identifying user's input graphics to control the flight of drones.

Project Leader, **Campus Second-Hand Trading Platform**   Mar. – Jun. 2018

- Developed a website with *HTML*, *CSS*, and *JavaScript* to realize seven functions like registration and publication of products.

Programmer, **Online Supermarket Management System**   Oct.– Dec. 2016

- Designed manager-side elements of the system in *C* to realize functions of purchase, price comparison, and goods management.

Tsinghua University   ***Beijing, China***

Independent Researcher, **Acquisition of GPS Information by Using STM32,** Beijing, China   Jul. – Oct. 2018

- Used the *HAL* library to obtain GPS information and utilized STM32L476 to transfer the data to the port for printing.

SKILLS

Technical Skills: C, JAVA, Python, SQL, LATEX, MATLAB, Embedded C, STM32 development board and drone

Language Skills: English (Fluent), Chinese (Native), German (Basic)