Yufan WANG

Mobile: (+86) 130-2129-8966 | Email: yufanwang0703@gmail.com
Personal Website: https://yufanwangyuki.github.io/

EDUCATION

Beijing University of Posts and Telecommunications (BUPT)   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: 89.18/100 3.72/4.0 **Ranking**: 3/192

Relevant Courses: Discrete Techniques for Computing, Operations Research, Probability Theory & Stochastic Processes, Advanced Mathematics, Data Structures, Database, Introduction of Internet of Things, Linear Algebra, Information Processing Technology on Internet of Things, Operating System, C Programming, and Java

RESEARCH

Glaucoma Diagnosis Based on Stereoscopic Fundus Images with Deep Learning Methods, *Renmin University of China*   Beijing, China
Undergraduate Researcher   Mar. 2019 – Present

- First used U-Net to obtain optic disc and cup images from stereoscopic fundus images and to sift and extract local features as benchmark.
- Then modify other stereoscopic models like basic Convolutional Neural Network (CNN) models (ResNet, VGG, Inception) combined with LSTM and DAVA-Net based on stereoscopic fundus images to identify the better segmentation model with Python Pytorch.

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

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

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

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

PROJECTS

Project Leader, **Hardware & Software Implementation of Campus Scooter Sharing System**, Beijing, China   Mar. – Jun. 2019

- Based on the 8051 development board, used LED, Keypad, buzzer and LCD components to simulate login, borrowing, and returning functions in actual application scenarios.
- Implemented GUI with *JAVA* to provide users and managers with the functions like login, borrowing and returning a scooter, paying the fine, managing information and so on.

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

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

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

- Developed a website with *HTML, CSS,* and *JavaScript* to realize functions such as user registration, log-in, group chat, publication of products, organization of collections, and purchases.

Developer, **GUI Design for an Evaluating System of Math Course**, Beijing, China   May – Jun. 2018

- Implemented GUI with *JAVA* to provide students with the functions of problem setting, error checking and error

recording.

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

- Designed the manager-side element of the system in *C language* enabling users to purchase, browse and compare goods and prices, and administrators to manage goods.

WORK EXPERIENCE

Cardinal Operations   Beijing China
Algorithmic Intern   Sep. 2019 – Present

- Pre-process the commercial data like sales, inventory, and replenishment for data merging, renaming, grouping, data traces, date completion and calculation of statistics with *pandas* and *numpy*.
- Work with Algorithm Development Group to customize the optimal replenishment strategy for the Enterprise customers (e.g. Xiaomi) to make more accurate purchasing and replenishment decisions. Based on the previous sales data, generate the forecast sales, then simulate the sales process to optimize the replenishment algorithm.
- Participated in the development of internal API 'Coforecast 2.0' with the function of feature generation, forecast, goods classification, forecast model generation and evaluation.

"Python and Financial Computing" Online Research Project (GEC Academy)   Beijing China
Teaching Assistant   Oct. 2019 – Present

- Help the professor with maintaining class order, hold tutorial session, solve students' programing problems, give detailed answers towards questions about finance, complete reference solutions for the assignments, collect and correct the homework

"Deep Learning" Course Preparation and Manuscript Writing, *Renmin University of China*   Beijing, China
Teaching Assistant   Mar. 2019 – Aug.2019

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

EXTRACURRICULAR ACTIVITIES

Coursera Online Course   Sep. 2019 - Present

- Join in the courses 'Machine Learning' by Stanford University and 'Introduction to Data Science in Python' by University of Michigan.
- Until now, got full marks in all tests and assignments of both courses and have got the certificate of 'Introduction to Data Science in Python', another certificate expected.

Volunteer activities at BUPT   Beijing, China
Volunteer   Sep. 2016 - Present

- Joined 20 volunteer activities, serving 1000+ individuals in total with 409 hours of volunteer work.
- Led 40+ students to plan, organize and execute 10+ large-scale activities.

HONORS AND SCHOLARSHIPS

"Honorable Mention" in COMAP's Mathematical Contest in Modeling	2018 & 2019
First-Class Scholarship (3%)	2019
Outstanding Students of Beijing	2018
National Scholarship (1%)	2018 & 2017
Excellent Student of BUPT (6%)	2017 & 2019
2017-2018 Excellent Student Cadre of BUPT (3%)	2018

SKILLS

Technical Skills:	High level of proficiency in **C, JAVA, Python, SQL** and **LATEX** programming
	Foundational skills in **MATLAB, HTML** and **Embedded C**
	Good understanding of **STM32** development board and drone
Language Skills:	English (Fluent), Chinese (Native), German (Basic)
	TOEFL: 106 (R29 + L29 + S23 + W25) **GRE:** 324 + AW3.5