Zhang, Yijie

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EDUCATIONAL BACKGROUND

Beijing University of Posts and Telecommunications (BUPT)   Sept. 2018-Jun. 2022

- **Bachelor of Engineering** in **Information Engineering** (Expected in June 2022)
- GPA: 3.4/4.0
- **Third Class Scholarship** for Excellent Undergraduates (2019 & 2020)

RESEARCH EXPERIENCE

State Key Laboratory of Networking and Switching Technology, BUPT   Mar. 2021-Present

Project: Development of An SDN Simulation Platform   Supervisor: Gaofeng Nie

- Enhancing the efficiency of transmission control protocol in wireless network.
- Using Mininet-Wifi to modulate the system.

ACADEMIC PROJECTS

Pattern Recognition based on MNIST Dataset   Oct. 2020-Dec. 2020

- Established three different neural networks on the strengths of MNIST datasets.
- Preprocessed hand-written pictures of digits using TensorFlow and Keras.
- Input the results obtained after the preprocessing step into the neural networks to recognize the numbers.
- Reached an accuracy rate of 99.5%.

Design and Implementation of a Web Calculator   Mar. 2020-Jun. 2020

- Completed a calculator that could realize the four operations for integral and float data with 1-64 digits.
- Enabled users to input data using clicking and keyboard or the combination of both.
- Simulated the computing of computers (code-based computing) to code the underlying logic of the program with considering the features of integral and float data respectively.
- Deployed the calculator onto a website.

4th Chuyan Plan Program: Automatic Parcel Storage & Pick-up System   Oct. 2019-Mar. 2020

- Employed a WeChat mini program to realize the remote control of the manipulator on the parcel storage & pick-up system.
- Constructed a cloud server to receive and save the data flow from the mini-program.

Development of An Arduino-based Intelligent Parcel Pick-up Machine   Oct. 2018-Jan. 2019

- Realized the remote supervision and control of the parcel pick-up machine through the coordination of Arduino and the WeChat mini-program.
- Designed and debugged the Arduino program that controls the movements of the steering engine.
- Constructed a cloud server to receive and save the data flow from the mini-program.
- Transferred the data to the WIFI module of Arduino to connected the WeChat mini-program and the hardware side.
- Allowed users to check if they have any package in the machine and the environment conditions therein.

EXTRA-CURRICULAR ACTIVITY

"French Language Post" -- French Culture Promotion based on WeChat Official Platform   May. 2020-Present

- Provided regular maintenance and effective updates for the front-end.
- Participated in the translation of English and French manuscripts.

Interpreter for ClubFootball (Beijing Wanguo Qunxing Football Club)   Oct. 2019-Present

- Provided translation between English and Chinese to help players communicate with coaches.

SKILLS & PROGRAMMING LANGUAGES

- **Programming Language**: C/ C++, JavaScript, Python
- **Software**: Mininet-Wifi, NS-3, MATLAB, PyCharm

OTHER INFORMATION

- **TOEFL**: 105; R 29, L 27, S 22, W 27; **GRE**: V 154, Q 170, Analytical Writing 3.5