

Hanwen Liao

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EDUCATION

New York University

M.S. - Computer Engineering

New York, NY

Jun. 2021

Beijing University of Posts and Telecommunications

B.E. - Telecommunication Engineering

Beijing, China

Jun. 2019

- GPA: 3.5/4
- Relevant Coursework: C++ Programming, Data Structures, Database Technology and Application, Java Programming, UNIX Operating System and Applications, Computer Networks and Internet

EXPERIENCE

Eastcom-BUPT Information Technology Co.,Ltd.

Beijing, China

Software Development Engineer - ISMP Department

Jun. 2016 - Sep. 2016, Jun. 2018 - Aug. 2019

- Maintained the ISMP (Integrated Service Management Platform) (C++, Linux)
- Developed the interface module of ISMP, which encodes and decodes between HTTP message and JSON message
- Modified the Lua compiler. Added a new grammar (like annotation in Java) and banned specific variable names by modifying the lexical analyzer of the Lua compiler
- Reconstructed the Lua virtual machine management module of ISMP using libevent library. Reduced the average response time by one-third
- Created the interface of ISMP and microservice platform, which passes JSON message (Golang)

PROJECTS

Intelligent Healthcare Project

Beijing, China

Supported by Wireless Communication Center, BUPT

Oct. 2018 - Apr. 2019

- Collaborated with a group of graduate students to develop intelligent mattress
- Developed and maintained server program, which uses Django to receive data from devices and store it in MySQL database
- Built an Android APP, which is able to access data from the server and show with charts using Chart.js

IoT Nodes Embedded Development Project

Beijing, China

Supported by Becstrong Co.,Ltd.

Jun. 2018 - Oct. 2018

- Developed IoT node program on STM boards
- Tested communication between boards using WiFi and Zigbee protocol
- Built an Android APP to receive data and show with charts

Self-landing Quad-rotor Unmanned Aerial Vehicle

Beijing, China

The first prize in BUPT Innovation Exhibition

Jun. 2017 - Oct. 2017

- Collaborated with 6 team members to design a flight control system, which make UAV land automatically and centimeter-level precisely
- Designed the short-range precise location equipment for UAV using Arduino, amplifier and ADC

Skills

- **Languages:** C/C++, Golang, Java, Python, SQL, Assembly, JavaScript, CSS, VHDL, Sell Script
- **Technologies:** Git, SVN, Linux, MySQL, SQL Server, MATLAB