

# Hanwen Liao

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## EDUCATION

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### 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

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### 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

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### 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

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