

HANWEN LIAO

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EDUCATION

New York University, NY, US Dec. 2020

M.S. - Computer Engineering (GPA 4/4)

Beijing University of Posts and Telecommunications, Beijing, China Jun. 2019

B.E. - Telecommunication Engineering (GPA: 3.5/4)

WORK EXPERIENCE

Huawei, Shenzhen, China Aug. 2020 – Dec. 2020

2012 Lab, Central Software Institute, Poincaré Lab

- Function call relationship analysis based on LLVM
- Variable tracer based on LLVM

New York University, NY, US Jan. 2020 – Jun. 2020

Teaching Assistant - Computer Architecture

- Taught review class and helped students comprehend the material
- Ran office hours to assist students with questions on assignments and exams
- Graded assignments and exams with proper feedback on the scores

Eastcom-BUPT Information Technology Co.,Ltd., Beijing, China Jun. 2018 – Aug. 2019

Software Development Engineer - ISMP Department

- Maintained the ISMP (Integrated Service Management Platform) (C++, Linux)
- Developed the interface module, 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
- Restructured the message distribution method, completed load balancing, and improved availability
- Created the interface of ISMP and microservice platform, which passes JSON message (Golang)

PERSONAL PROJECTS

Intelligent Healthcare Project, Beijing, China Oct. 2018 – Apr. 2019

Supported by Wireless Communication Center, BUPT

- 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 Jun. 2018 – Oct. 2018

Supported by Becstrong Co.,Ltd.

- 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

Personal Website

- Used React and Bootstrap
- Used Golang as web server and MongoDB as database

SKILLS

- **Program Languages:** C/C++, Golang, Java, Python, SQL, Shell Script, Assembly, JavaScript, CSS, VHDL, Verilog
- **Technologies:** Git, SVN, Linux, MongoDB, MySQL, SQL Server, Redis, React, MATLAB
- **Development Tools:** can adapt to any editors/OSs, usually use VSCode