

# Fuyao Wang

781-333-1238 | fuyao@bu.edu | Boston MA,02150

<https://www.linkedin.com/in/fuyaowang/>

## Education

### Boston University(Expected 2020)

Boston, MA

M.S. in Electronic and Computer Engineering

Sep 2018 - Jan 2020

**Core Courses:** Machine learning, Embedded system, Data Structures, Computer architecture and Software design, etc.

### Beijing University of Technology

Beijing, China

B.E. in Electronic and Information Engineering

Sep 2012 - Jun 2018

**Core Courses:** Programming in Java, C, C++, Linux, Database, Embedded Programming Design, etc.

## Experiences

### Smart Delivery Cabinet (*Software Design & C++, Java*)

Beijing, China

Software Engineer Intern in Beijing Silk Street Management Company

Mar 2018 - Jun 2018

- Worked with a team to design an **Android** App implementing all the functions of a Smart Delivery Cabinet.
- Programmed **C++** and **Java** to combine all hardware together including locker, card reader and so on.
- Participated in the group to design the **UI** and fix all the problems of the product before it goes into service.

### Intelligent Laboratory Management System (*Internet of Things & C, C++, Java*)

Beijing, China

Software Engineer Intern Program in Beijing University of Technology

Feb 2017 - Apr 2017

- Equipped classroom with an embedded RFID card reader which can communicate with an Android devices.
- Connected the app to the database using **AWS RDS** service to achieve data persistence.
- Programmed **C** and **C++** to set all hardwares up and wrote a **Android** App in **Raspberry Pi**.
- Became in-use within the campus labs.

## Projects

### Product Design of Utility Poles Detection System (*Python, Tensorflow, YOLO*)

Boston, MA

Machine Learning

Sep 2018 - Dec 2018

- Applied Google Map and Google Street View **API** to get the street view images by **Python** code.
- Trained darknet model of **YOLO** to detect the utility poles of the location and label them.

### Web Application for Practical Implement of Software Design (*Python, Django, Mysql*)

Boston, MA

Web Design

Sep 2018 - Dec 2018

- Designed a web application to implement the actual use of a machine learning project.
- Used **Django** as framework, **Python** as backend, and **Mysql** database for user info system and data collection.

### Linux Kernel Design (C)

Boston, MA

Linux

Sep 2018 - Dec 2018

- Wrote **C** to design some of the **kernel module drivers** including timer and multiple tasks.
- Implemented functions that handle the commands from user space and set timer to produce exact messages.

### Intelligent Fish Tank (*Internet of Things, C, Python, Android*)

Beijing, China

Embedded System Project

Dec 2016 - Feb 2017

- Implemented ultrasonic distance module, temperature sensor and WiFi module by **C**.
- Built an **Android** App to remotely collect the data and control the water temperature and distance in fish tank.

## Skills

**Programming Languages:** C, C++, Verilog, Java, Python.

**Web Development:** JavaScript, Python.

**Deep Learning:** Python, Tensorflow, YOLO.

**Tools & System:** Linux, MySQL, Android Studio, etc.