Fuyao Wang

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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 (*Softeware 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 date and control the water temperature and distance in fish tank.

Skills

Programming Languages: C, C++, Verilog, Java, Python.
Web Development: JavaScript, HTML, CSS, React.js.
Tools & System: Linux, MySQL, Android Studio, etc.