# YIKUN LI

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## PROFESSIONAL PROFILE

- Utilized a variety of programming languages in studies and project experiences: C/C++, Java, Python
- Also experienced in project simulation: Matlab, Simulink
- Experienced hands-on innovation and entrepreneurship courses and programs, with considerable teamwork and leadership skills, and strong skill of presentation etc.

## EDUCATION

**UNIVERSITY COLLEGE LONDON**                                                                         London, United Kingdom
*MSc Connected Environment*                                                                                         2023 - Present
- Focused on interlinking the Internet of Things, Artificial Intelligence, Mixed Realities and Data Science

**XI'AN JIAOTONG - LIVERPOOL UNIVERSITY**                                                         Suzhou, P. R. China
*BEng Internet of Things Engineering*                                                                                  2019 - 2023
- Bachelors of Engineering in Internet of Things and Contemporary Entrepreneurialism
- Degree: Upper-second Class degree

## EXPERIENCE

**XI'AN JIAOTONG - LIVERPOOL UNIVERSITY**                                                         Suzhou, P.R. China
*Research Assistant*                                                                          June 2022 - September 2022
- Applied the MPTCP protocol to SDN
- Investigated the problem that a number of congestion links in a sublink of mptcp would have an impact on the transmission rate of another sublink

**XI'AN JIAOTONG - LIVERPOOL UNIVERSITY**                                                         Suzhou, P.R. China
*Research Assistant*                                                                            January 2022 - March 2022
- Built simple SDN systems with Ryu controller
- Researched and explored Ryu controller source code

## PROJECTS

**XI'AN JIAOTONG - LIVERPOOL UNIVERSITY**                                                         Suzhou, P.R. China
*Final Year Project*                                                                                   July 2022 - July 2023
- Title: MPTCP-based Link Congestion Detection and Traffic Control in Software-Defined Networks
- Conducted a congested link detection method and a detection-based traffic control method to reduce the impact of link congestion on MPTCP through use of SDN

**XI'AN JIAOTONG - LIVERPOOL UNIVERSITY**                                                         Suzhou, P.R. China
*AR-based cross-platform interaction system for IoT*                                          March 2022 - June 2022
- This project is to develop a new generation of IoT system, allows users to do DIY operations through mobile devices
- Designed a three-tier C/S architecture based system with the main components of client, web server, mqtt server and database
- Enabled the user's mobile device to pop up a control bar as an AR when a specific symbol or QR code is scanned and built connection between devices and devices

**XI'AN JIAOTONG - LIVERPOOL UNIVERSITY**                                                         Suzhou, P.R. China
*Group Project: Intelligent Agriculture*                                                      March 2021 - June 2021
- Designed an intelligent system based on three arduino development boards for environmental data detection, actuator control and data display
- Developed the I2C communication protocol between three Arduino development boards, and displayed all data on the LCD screen after processing

## PUBLICATIONS

- Research about solve the MPTCP subflow performance degradation problem caused by link congestion (still under review)