

# Mycroft Liu

Research Assistant at University of Minnesota  
American MENSA Member  
Computer Science & Mathematics Undergraduate Student

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## Experience

- **Research Assistant** ----- 2019.04 – Present, University of Minnesota, Minneapolis

Advisor: Prof. Zhi-Li Zhang

Qwest Chair Professor and McKnight Distinguished University Professor at the University of Minnesota-Twin Cities

5G mmWave Researcher

**Publication:**

*A First Look at Commercial 5G Performance on Smartphones (WWW2020 Conference)*

*Lumos5G: Mapping and Predicting Commercial mmWave 5G Throughput (ACM IMC 2020 Conference)*

Android Developer

Developed 5GTracker app which collects information such as 5G/4G network status, tower handoff status, GPS, etc. from the devices.

Web Developer

United States 5G Coverage Map <https://5gophers.cs.umn.edu/>

Network Researcher

Using NfQueue and Scapy to analyze IoT data.

Developed a lab server management system. (Ongoing)

- **Information Security Officer** ----- 2020.07 – 2020.10, Volvo Cars, Shanghai

Supported security supervision, operation and maintenance in all digital projects. Built up internal security tools with open-source software. Involved in data loss prevention and compliance projects. **Lead the investigation on one serious security incident and found the hacker.**

- **Software Engineer** ----- 2019.07 – 2019.08, Linkage Info (Former NASDAQ: ASIA), Nanjing

Supported software engineering in School-Parents Communication Platform project. Used CentOS, Oracle SQL, Java, Spring, etc. on regular basis. **Best intern student award.**

## Education

- **University of Minnesota-Twin Cities** ----- 2017.09 – 2020.05, 2021.09 – Present

Bachelor of Science – Computer Science

Bachelor of Arts - Mathematics

- **Nanjing Foreign Language School** ----- 2014.09 – 2017.06

IB Diploma Program

## Skills

5G&Application, Computer Network, Security, Python, Java, C/C++, JavaScript, Android, Git, Linux

## Awards

- American Mensa Member
- American Mathematics Competition (AMC12) World Top 1%
- Dean's List

## Interests

Computer Science, Golf, Traveling, Singing, Soccer