Xin Tong

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Education

University of Illinois Urbana-Champaign (UIUC) — *Champaign, IL*
M.S. COMPUTER SCIENCE — *Expected May 21*
- Teaching Assistant for *CS225 Data Structures* in Fall 19.

New York University Abu Dhabi (NYUAD) — *Abu Dhabi, UAE*
B.S. COMPUTER SCIENCE — *Aug. 15 - May 19*
- Magna Cum Laude (3.977 / 4.0)

Skills

Languages **proficient** Java, Python, JavaScript, LaTeX   **familiar** C/C++, Golang
Dev Tools Linux, Bash, Git, Vim

Work Experience

WeChat, Tencent (Mini Program Team) — *Guangzhou, China*
SOFTWARE ENGINEERING INTERN — *Jun. - Aug. 18*
- Developed real-time, multiplayer game prototypes using the *Mini Game* framework (Implementation language: JavaScript; HTML5 game engine: Layabox)
- Expanded the *Mini Program/Game* library by adding APIs to support the latest networking, file storage and multimedia features, such as VoIP chat within mini games
- Solved issues raised by developers on the *Mini Program* community forum

BiggerLab, Pre-College Computer Science Education Startup — *Shanghai, China*
TEACHING ASSISTANT, SUMMER INTERN — *Jun. - Aug. 16*
- Served as teaching assistant for lessons on *Arduino*, the *Processing* Java graphical library, and iOS development (15-20 high school students per class, 2 classes)
- Wrote Chinese tutorials on programming with Arduino and Processing
- Organized and led coding workshops in collaboration with popular hackerspaces in Shanghai such as *Xinchejian*

Research Experience

Undergraduate Capstone Research, NYUAD (Prof. Jay Chen) — *Abu Dhabi, UAE*
RESEARCHER — *Sep. 18 - May 19*
- Designed and partially implemented a blockchain-based distributed storage system with a Proof of Replication storage verification scheme and P2P networking capacity
- Implementation language: Golang

Secure Systems Lab, NYU Tandon (Prof. Albert Rafetseder, Justin Cappos) — *New York, NY*
SUMMER RESEARCH INTERN — *Jun. - Aug. 17*
- Developed a Distributed Hash Table (DHT)-based information advertise and lookup library for *Seattle Testbed*, a cloud computing platform for networking and distributed systems research
- Implementation language: Python; Networking tool: Wireshark

Open Source Projects

2019 Noise, a lightweight p2p networking stack in Golang *(forked)* *[code]*
2018 Operating Systems class projects *[code]*
2018 Chordinate, a React Native app for practicing chord progressions *[code]*
2017-18 Web Development for *the Gazelle*, student publication website at NYUAD *[contributions]*
2017 Advertise DHT, distributed advertise methods for Seattle *RepyV2* library *[code]* *[poster]*
2017 Acamaniac, an academic schedule planner for NYUAD students *[code]* *[demo]*
2016 Audio Wave, a Web Audio visualizer *[code]* *[demo]*