

# Xin Tong

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## Education

### University of Illinois Urbana-Champaign (UIUC)

#### M.S. COMPUTER SCIENCE

- Teaching Assistant for CS225 *Data Structures* in Fall 19.

*Champaign, IL*

*Expected May 21*

### New York University Abu Dhabi (NYUAD)

#### B.S. COMPUTER SCIENCE

- Magna Cum Laude (3.977 / 4.0)

*Abu Dhabi, UAE*

*Aug. 15 - May 19*

## Skills & Coursework

<b>Programming Languages</b>	<b>proficient</b> Python, Java, JavaScript (ES6), LaTeX	<b>familiar</b> C/C++, Golang, GLSL
<b>Web/Big-Data Frameworks</b>	React, Node.js (Express), WebGL, Spark	
<b>Environments/Tools</b>	Unix, Bash, Git, Vim, VS Code, Eclipse, Jupyter	
<b>Lab-based Coursework</b>	Foundations of Data Science, OS, Dynamic Web Applications, Computer Graphics	

## Work Experience

### WeChat, Tencent (Mini Program Team)

#### SOFTWARE ENGINEERING INTERN

- Developed real-time, multiplayer game prototypes using the Mini Game framework and LayaBox HTML5 game engine. 53093 lines of JavaScript in total.
- Expanded the Mini Program/Game client-side library by adding APIs to support networking, file storage and multimedia features, such as VoIP chat. Developed feature-testing prototypes that cover each added API.
- Helped solve ~20 developer issues from the community forum.

*Guangzhou, China*

*Jun. - Aug. 18*

### BiggerLab, Pre-College Computer Science Education Startup

#### TEACHING ASSISTANT

- Teaching Assistant for classes on Arduino and the Processing Java graphics library (15-20 high school students per 2-week class, 2 classes total).
- Hosted 5 coding workshops in collaboration with hackerspaces in Shanghai such as *Xinchejian*.

*Shanghai, China*

*Jun. - Aug. 16*

## Research Experience

### Undergraduate Capstone Research, NYUAD (Prof. Jay Chen)

#### RESEARCHER

- Designed and partially implemented a blockchain-based distributed storage system with a Proof of Replication storage verification scheme and P2P networking capacity.
- Written drafts of a system design whitepaper (to be published); implemented with ~5000 lines of Golang.

*Abu Dhabi, UAE*

*Sep. 18 - May 19*

### Secure Systems Lab, NYU Tandon (Prof. Albert Rafetseder, Justin Cappos)

#### SUMMER RESEARCH INTERN

- 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 with ~4000 lines of Python.

*New York, NY*

*Jun. - Aug. 17*

## 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 ReplyV2* library [code] [poster]
- 2017 Acamaniac, an academic schedule planner for NYUAD students [code] [demo]
- 2016 Audio Wave, a Web Audio visualizer [code] [demo]