

# Xin Tong

COMPUTER SCIENCE RESEARCHER · SOFTWARE ENGINEER

NYU Abu Dhabi, PO Box 129188, Saadiyat Island, Abu Dhabi, UAE

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## Education

### New York University Abu Dhabi (NYUAD)

Abu Dhabi, UAE

B.S. COMPUTER SCIENCE, APPLIED MATHEMATICS & INTERACTIVE MEDIA MINORS

Expected May 2019

- Major GPA: 4.0/4.0, Cumulative GPA: 3.941
- Studied away at the New York campus in Spring and Fall, 2017

## Skills

**Programming languages:** Java, Python, JavaScript, C/C++, LaTeX   **Web:** React, Redux, HTML5, CSS3, Express(Node.js)  
**Dev Tools**   Linux, Git, Vim

## Research Experience

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

Abu Dhabi, UAE

RESEARCHER

Mar. 2018 - Present

- Design and implement a blockchain-based distributed storage system, using *Proof of Replication* / *Data Possession* schemes
- Create a decentralized discussion forum application, in support of preserving Internet freedom of speech in an age of media censorship

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

New York, US

SUMMER RESEARCH INTERN

Jun. - Aug. 2017

- Developed a Distributed Hash Table (DHT)-based information advertisement and lookup library for *Seattle Testbed*, a cloud computing platform for networking and distributed systems research
- Programming language: Python; tools: Git, SSH, Wireshark

## Work Experience

### WeChat, Tencent (Mini Program Team)

Guangzhou, China

SOFTWARE ENGINEERING INTERN

Jun. - Aug. 2018

- Developed real-time, multiplayer game prototypes using the *Mini Game* framework (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. 2016

- Served as teaching assistant for lessons on *Arduino* software and hardware, 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*

## Open Source Projects

- 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   Acamaniac, an academic schedule planner for NYUAD students   [\[code\]](#) [\[demo\]](#)
- 2017   *Dynamic Web Applications* class projects   [\[code\]](#)
- 2017   *Drawing on the Web* class projects   [\[code\]](#) [\[demo\]](#)
- 2016   Audio Wave, a Web Audio visualizer   [\[code\]](#) [\[demo\]](#)

## Extracurricular Activity

### NYUAD Women's Intercollegiate Basketball

TEAM MEMBER

Sep. 2015 - May 2016, Sep. 2018 - Present