

Xin Tong

COMPUTER SCIENCE RESEARCHER · SOFTWARE ENGINEER

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Education

New York University Abu Dhabi (NYUAD)

Abu Dhabi, UAE

B.S. COMPUTER SCIENCE, APPLIED MATHEMATICS MINOR

Expected May 2019

- Cumulative GPA: 3.938 / 4.0
- Studied away at the New York campus in Spring and Fall, 2017

Areas of Interest

File and Storage Systems, Distributed Systems and Networking, Information Systems and Data Analytics

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 a transparent, publicly verifiable *Proof of Replication* scheme
- Create a decentralized discussion forum application on top of the storage system, in support of Internet freedom of speech

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

New York, US

SUMMER RESEARCH INTERN

Jun. - Aug. 2017

- 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
- 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*, 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*

Skills

Programming languages: Java, Python, JavaScript, C/C++, Go, GLSL, LaTeX **Web:** React, HTML5, CSS3, WebGL, Node.js
Dev Tools Linux, Bash, Git, Vim

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 Advertise DHT, distributed advertise methods for *Seattle RepV2* library [\[code\]](#) [\[poster\]](#)
- 2017 Acamaniac, an academic schedule planner for NYUAD students [\[code\]](#) [\[demo\]](#)
- 2017 *Dynamic Web Applications* class projects [\[code\]](#)
- 2016 Audio Wave, a Web Audio visualizer [\[code\]](#) [\[demo\]](#)

Extracurricular

- 2015-16, 2018 NYUAD Women's Intercollegiate Basketball *Team Member*